

Program Complot
(Version 2021-1)

by

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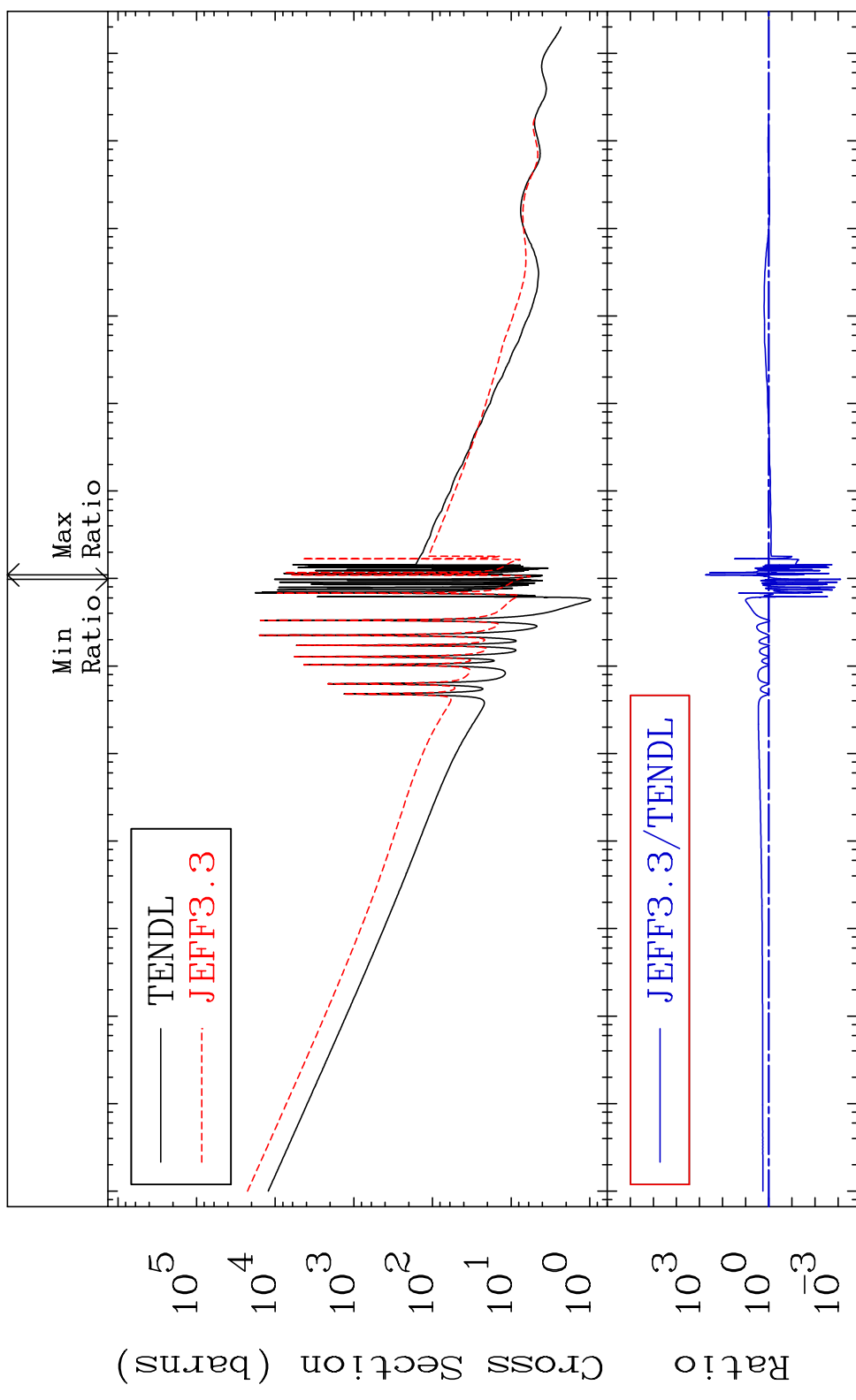
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6040

Total Cross Section -99.92 To 9999. %
60-Nd-147



Ratio
10⁵
10⁴
10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

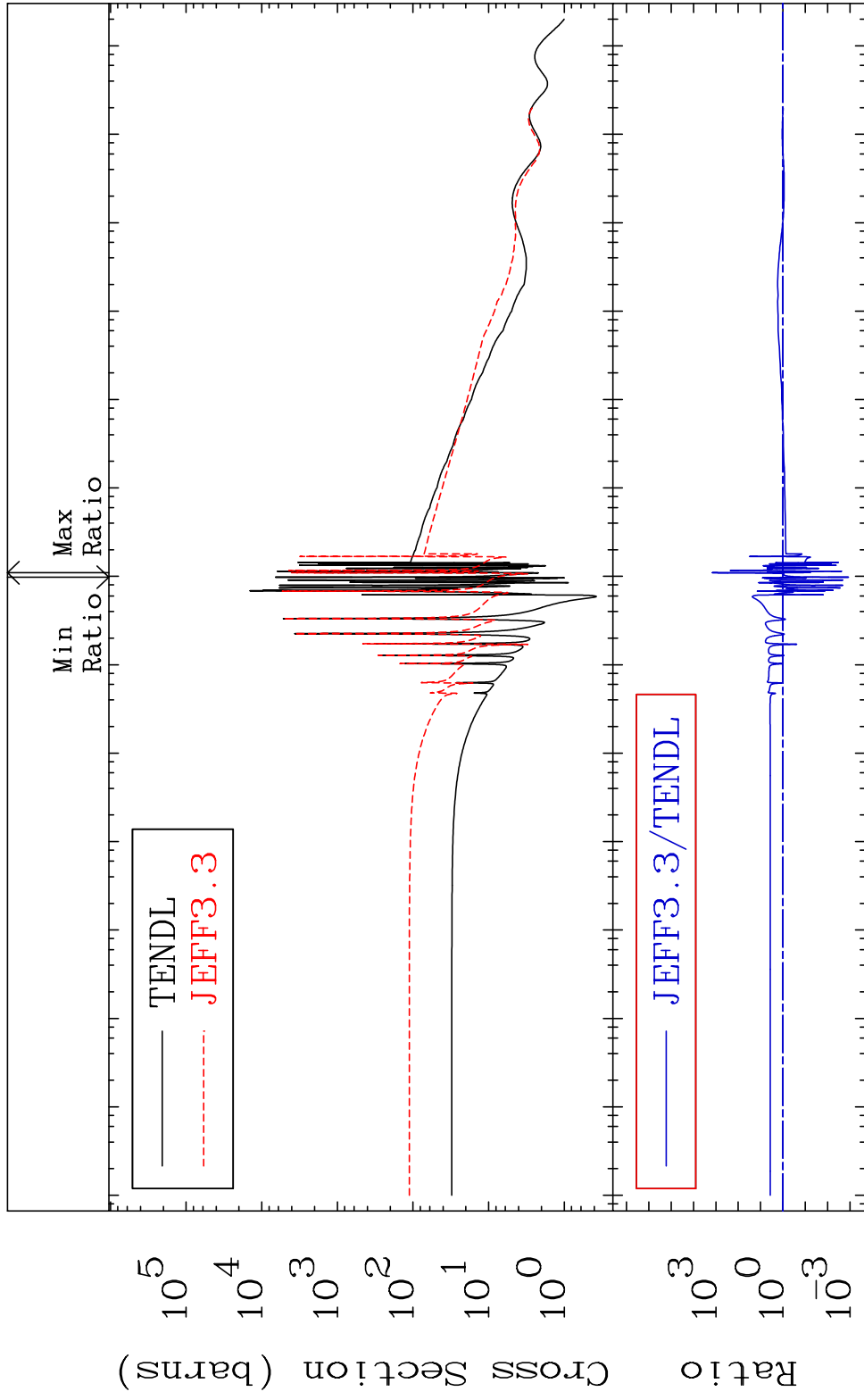
1 Incident Energy (eV) 60-Nd-147

MAT 6040

Elastic

60-Nd-147

Cross Section -99.88 To 9999. %

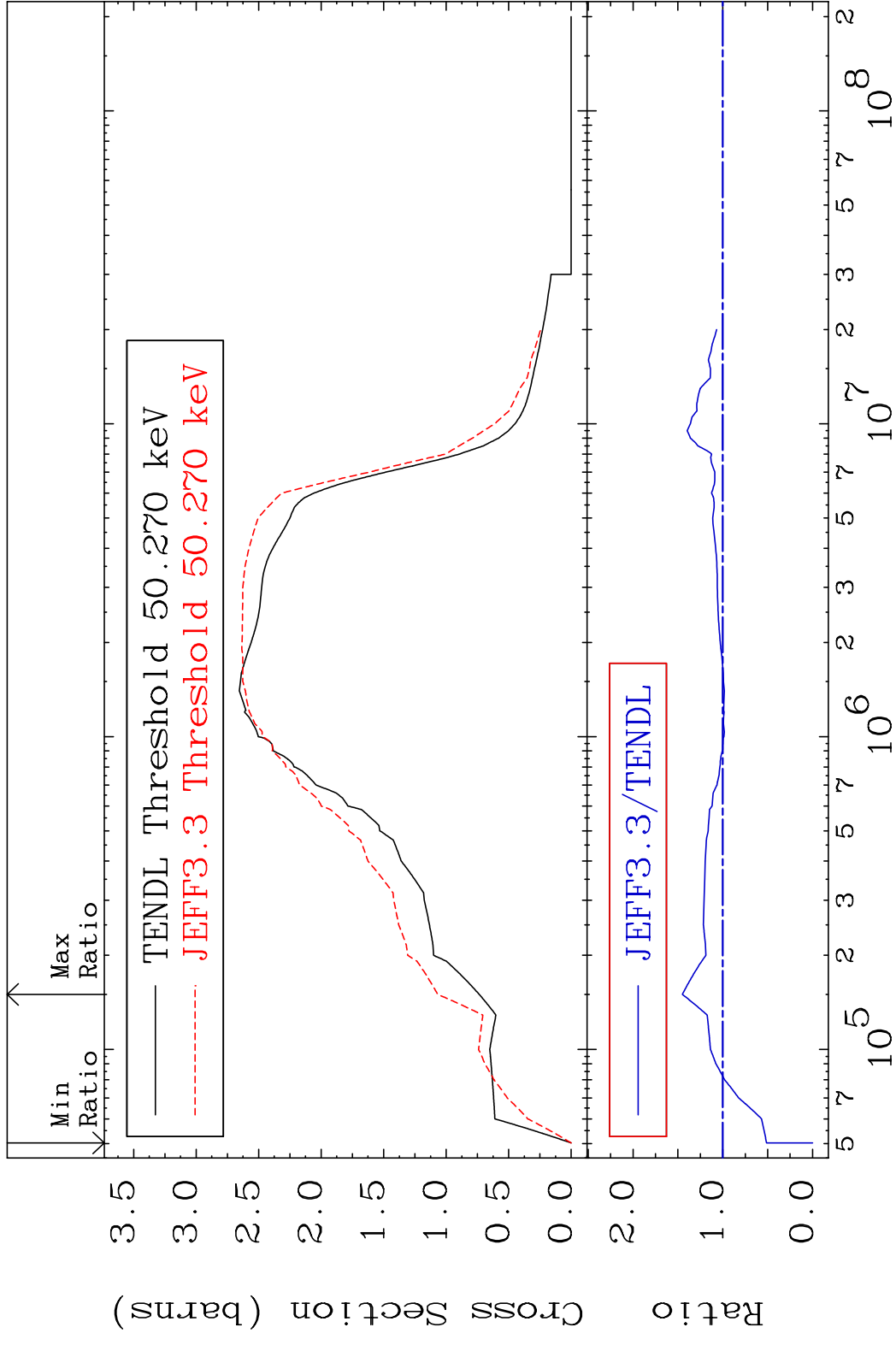


2

Incident Energy (eV)

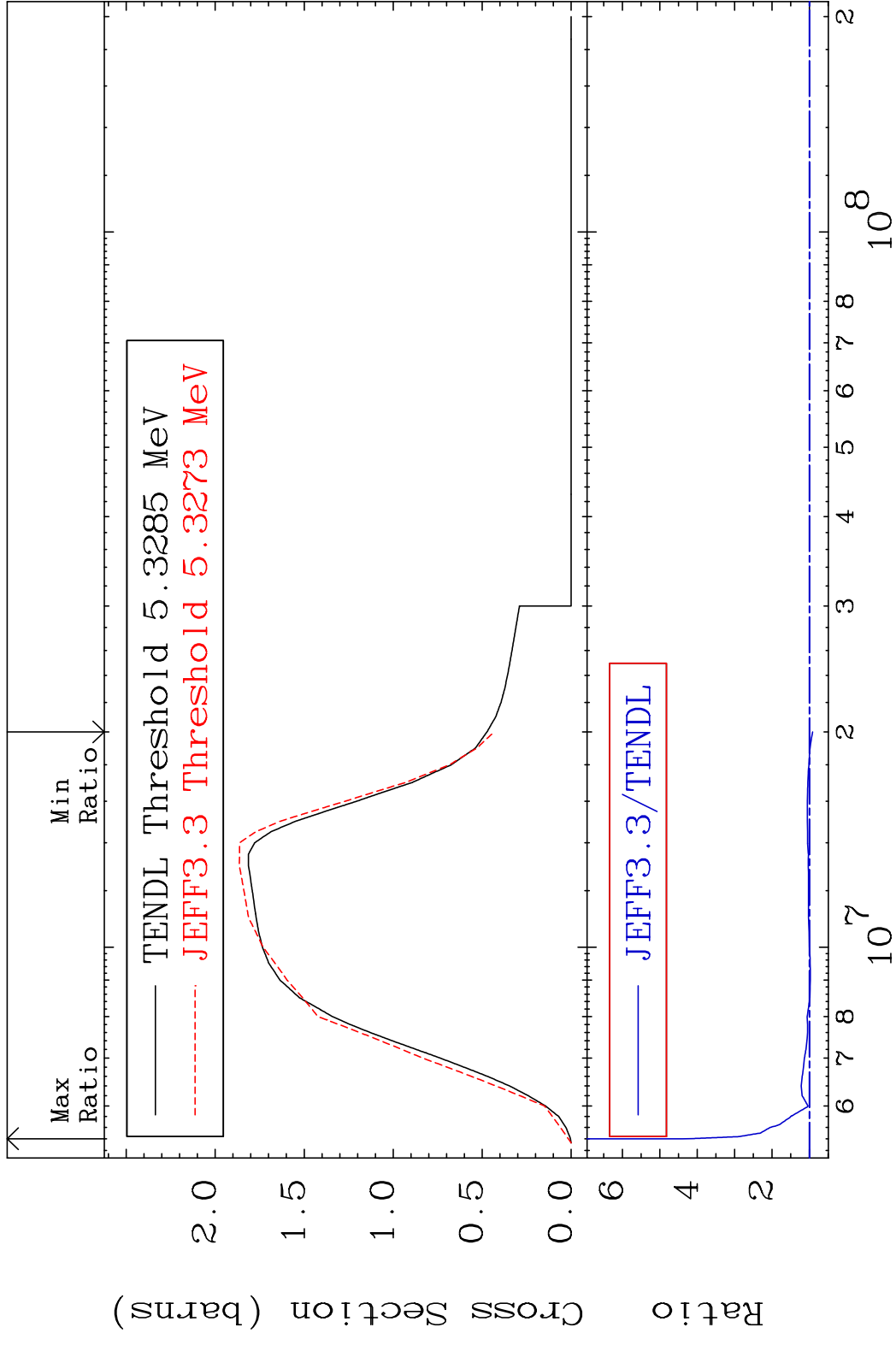
60-Nd-147

MAT 6040 Inelastic Cross Section -100.0 To 45.06 % 60-Nd-147



3 Incident Energy (eV) 60-Nd-147

MAT 6040 (n,2n) 60-Nd-147
 Cross Section -8.345 To 339.6 %



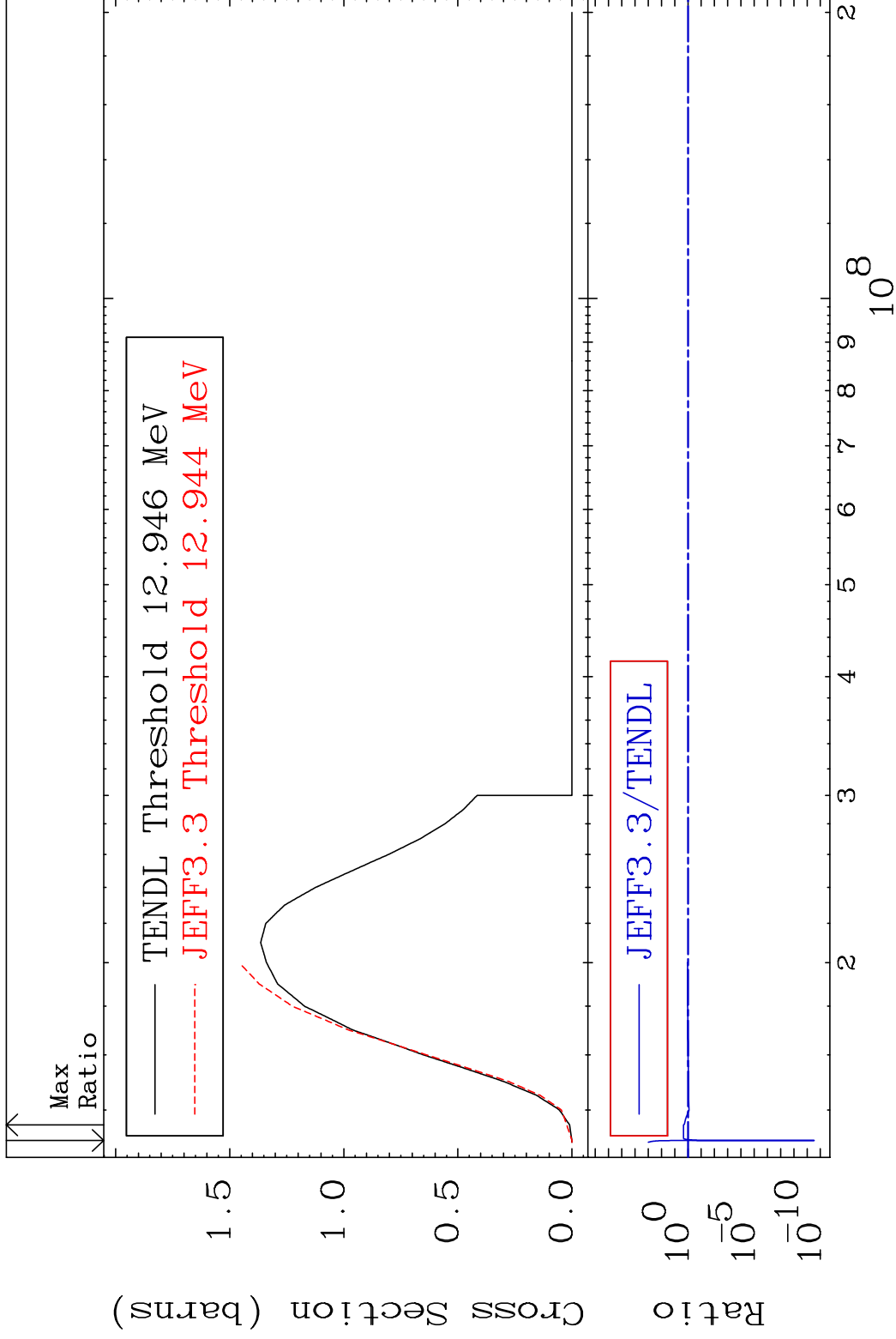
4 Incident Energy (eV) 60-Nd-147

MAT 6040

(n,3n)

60-Nd-147

Cross Section -100.0 To 119.5 %



5

Incident Energy (eV)

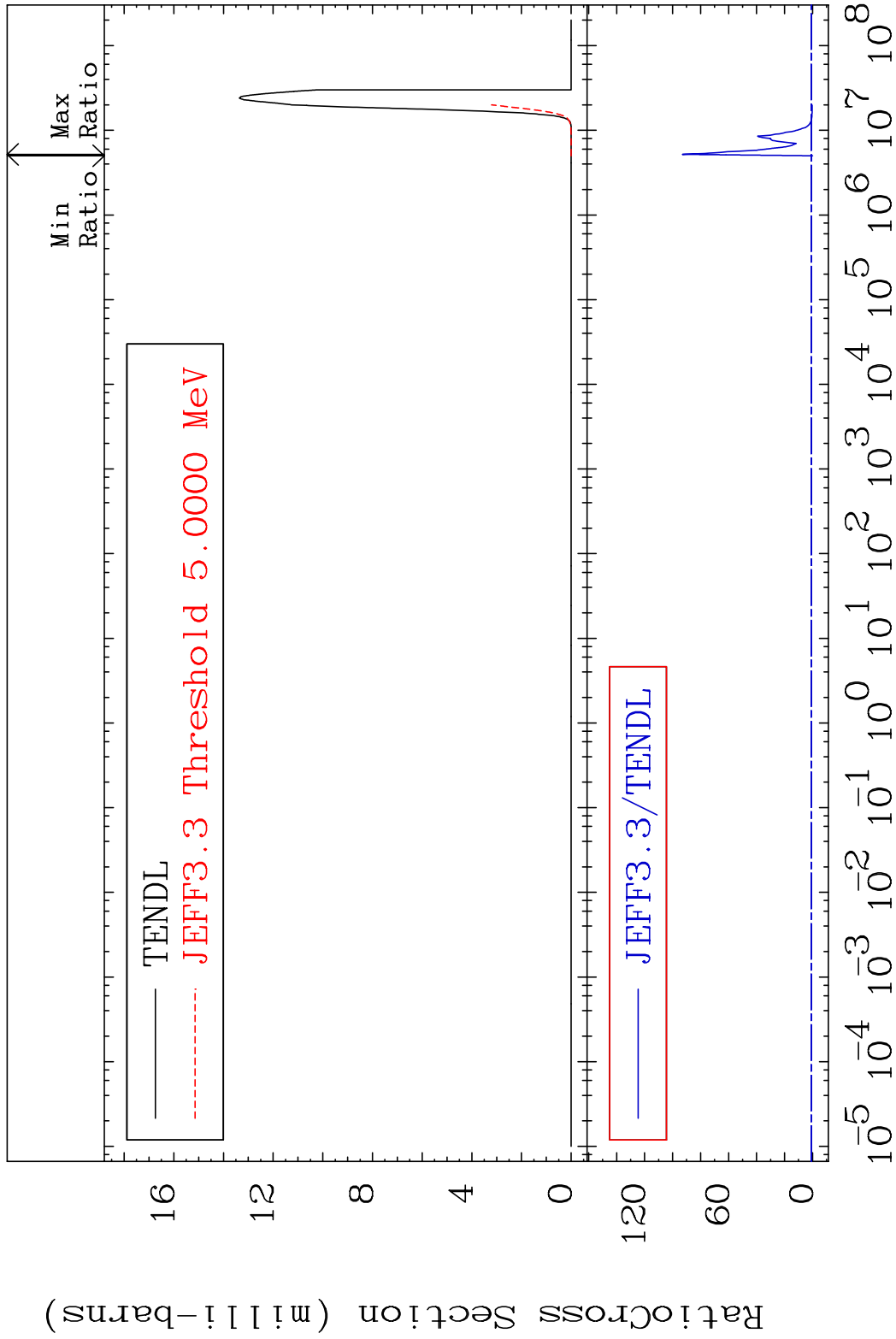
60-Nd-147

MAT 6040

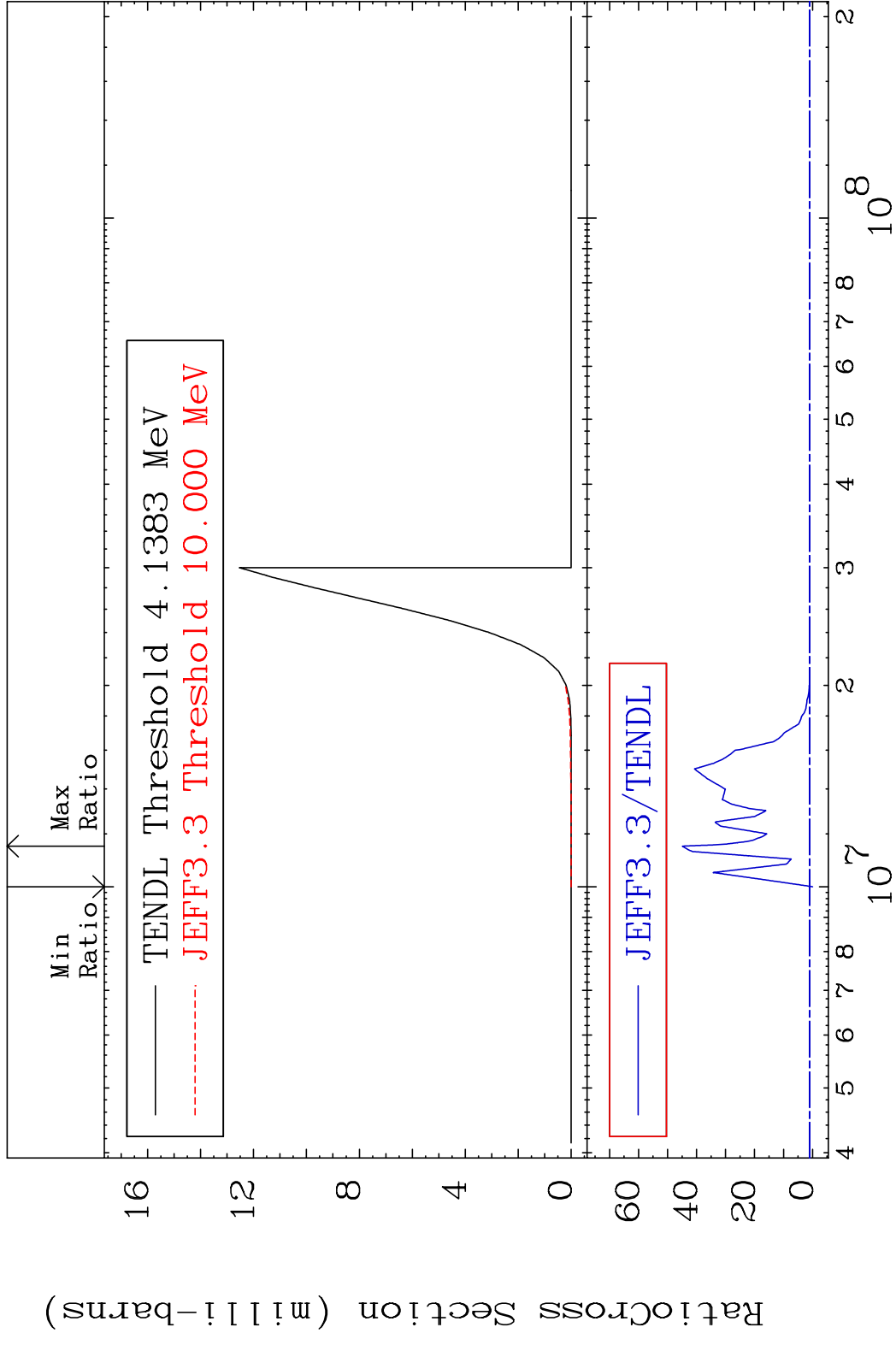
(n, n') α

60-Nd-147

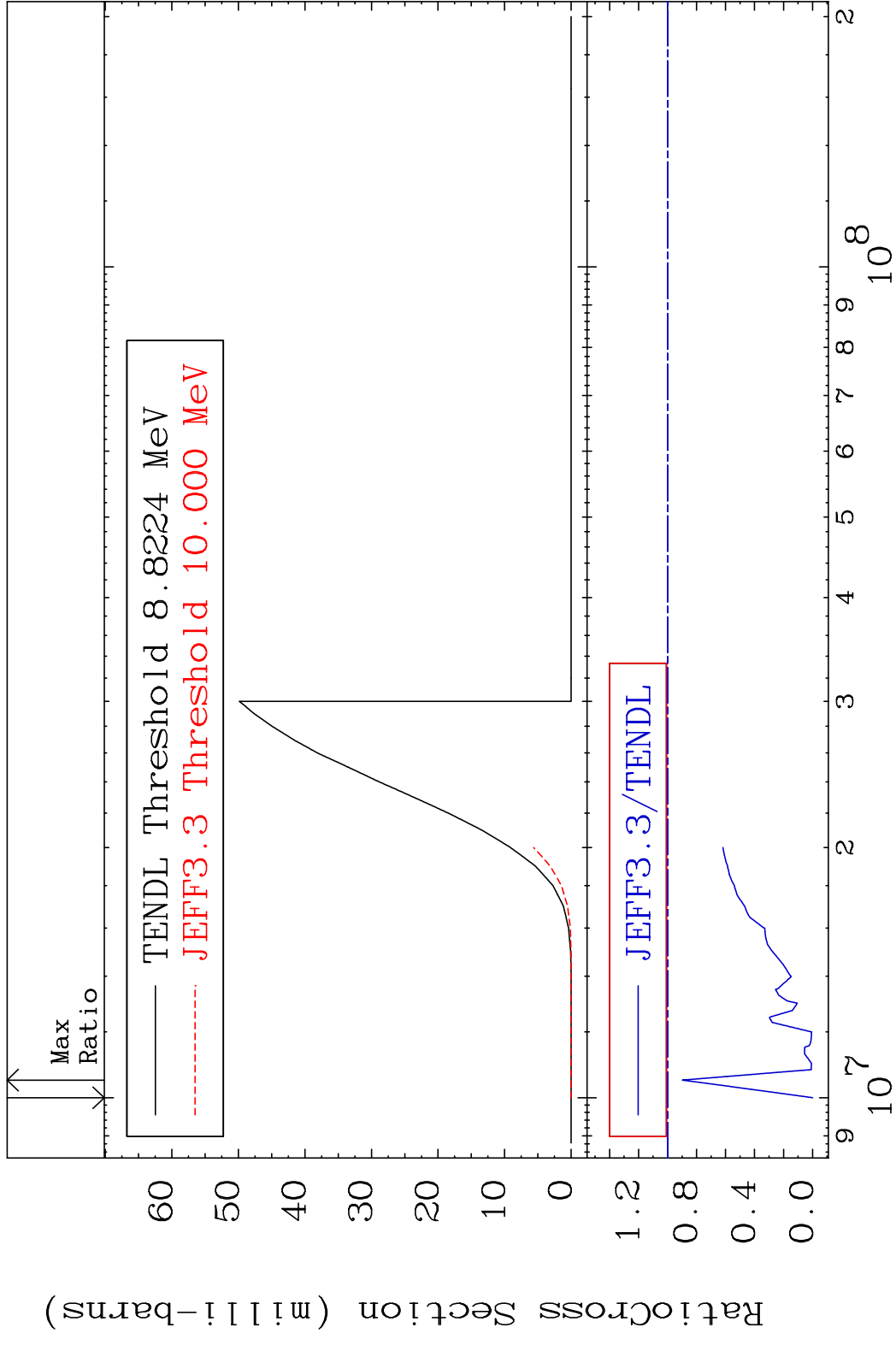
Cross Section -100.0 To 9202. %



MAT 6040 (n,2n) α 60-Nd-147
 Cross Section -100.0 To 4390. %



MAT 6040 (n, n') p 60-Nd-147
 Cross Section -100.0 To -10.21%



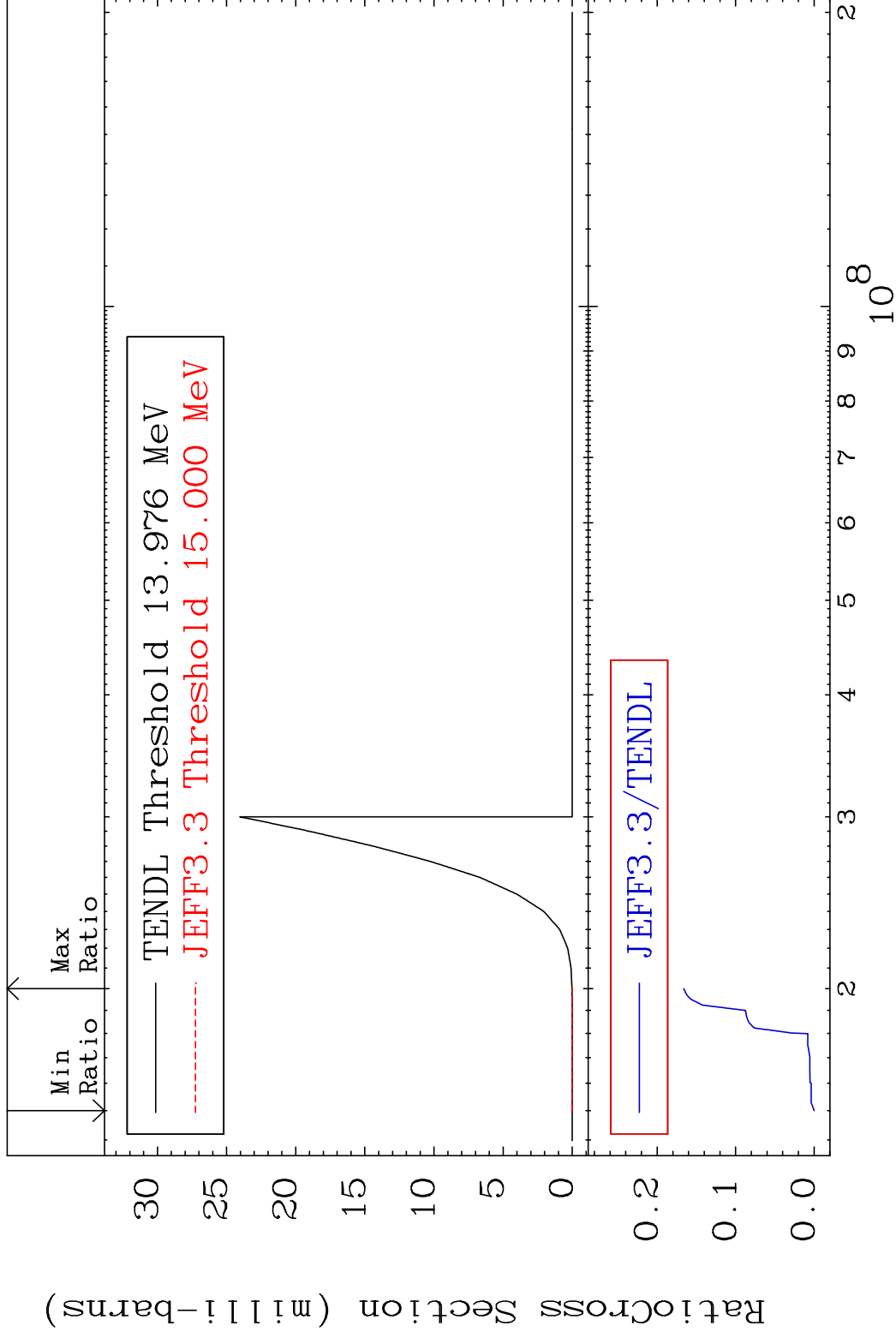
8 Incident Energy (eV) 60-Nd-147

MAT 6040

(n,2n) p

60-Nd-147

Cross Section -100.0 To -83.38%

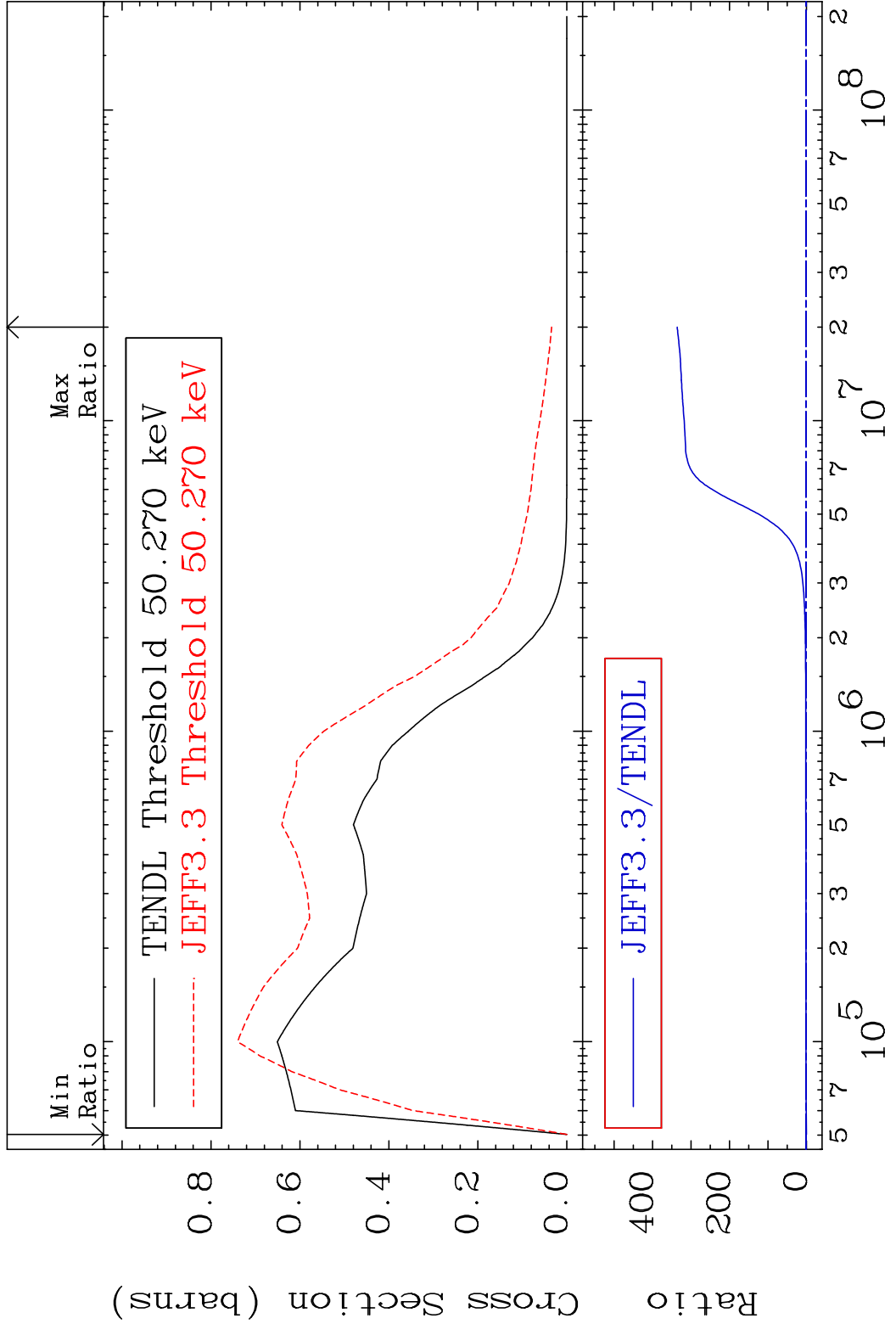


9

Incident Energy (eV)

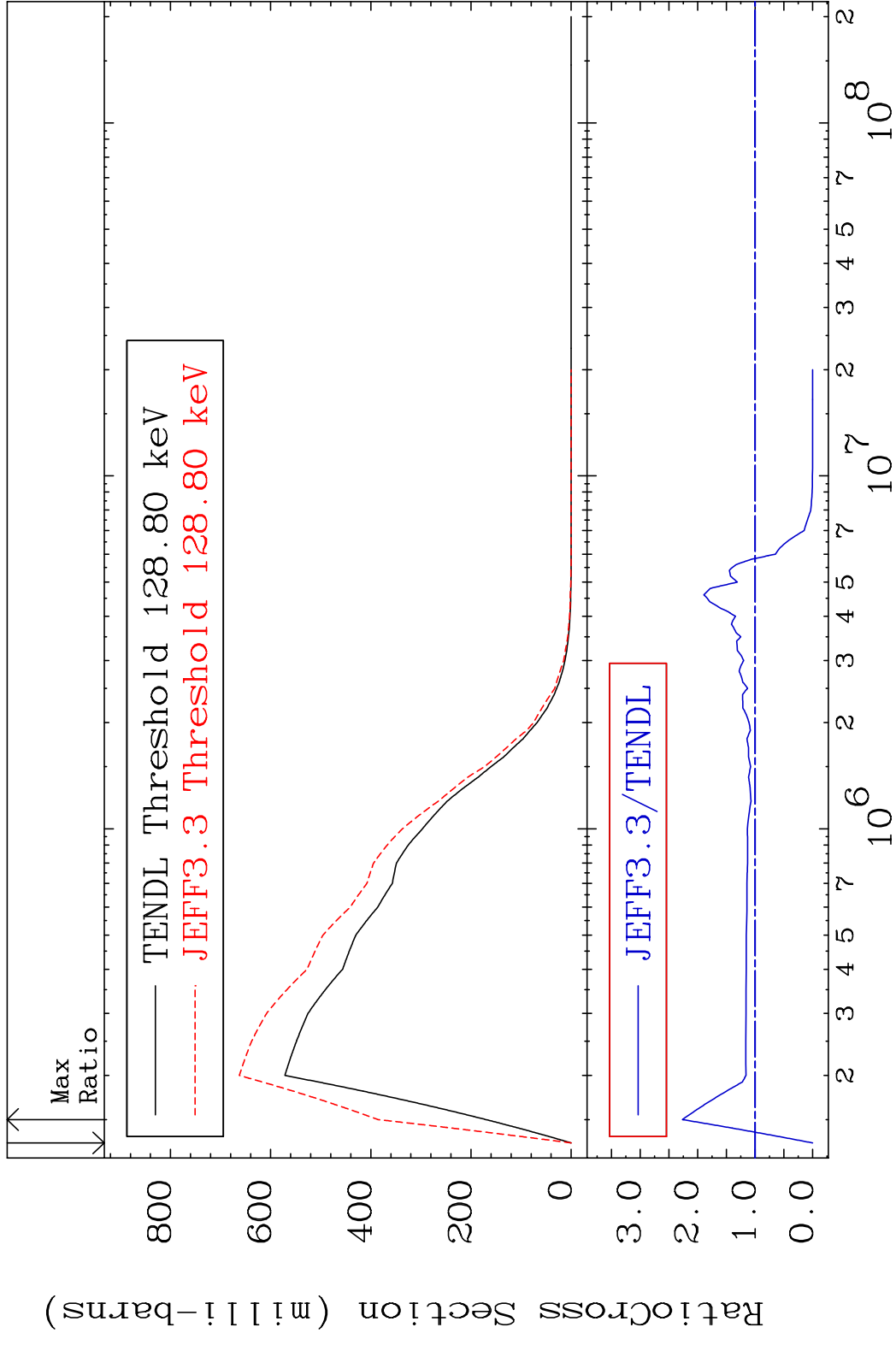
60-Nd-147

MAT 6040 MT= 51 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 9999. %

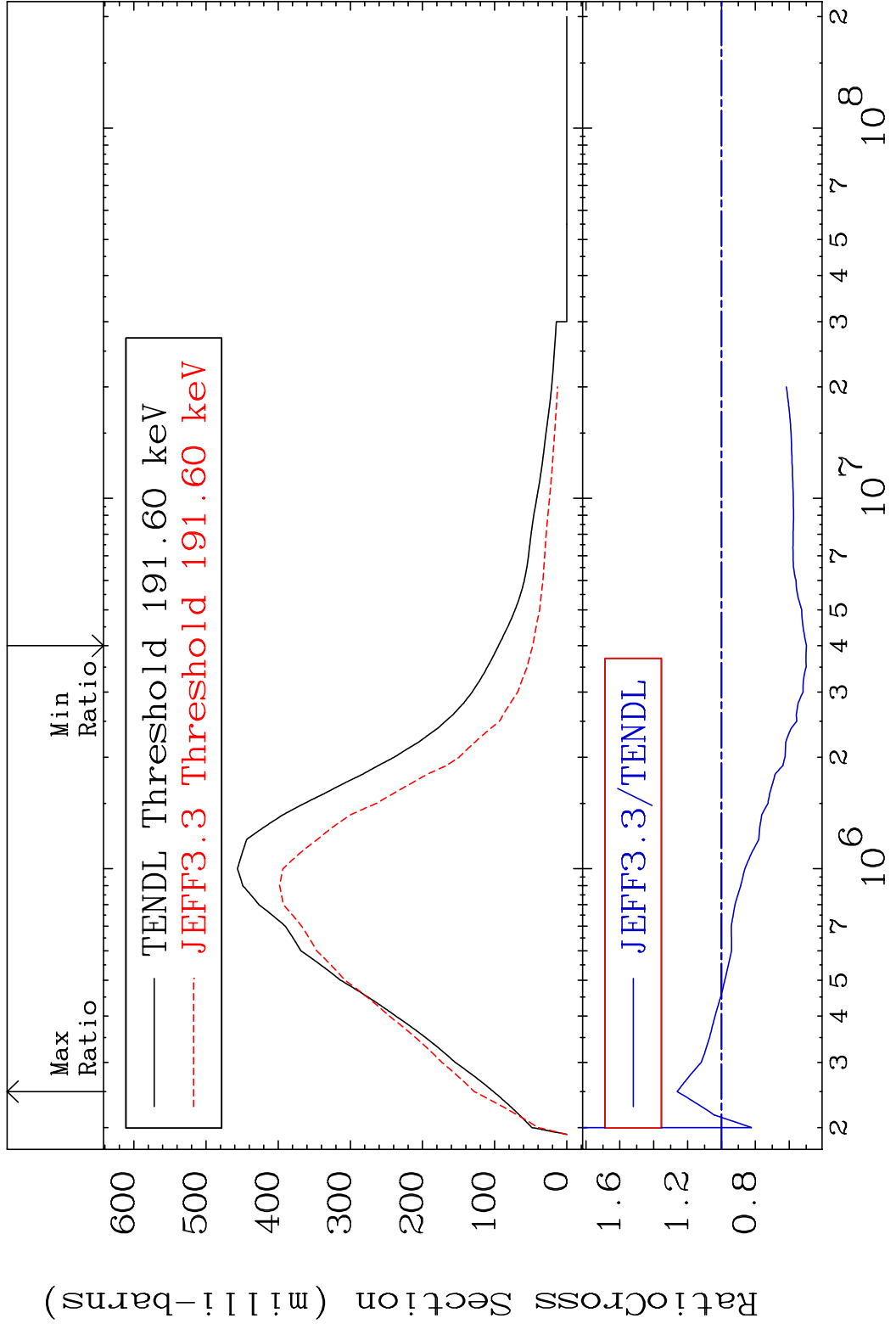


10 Incident Energy (eV) 60-Nd-147

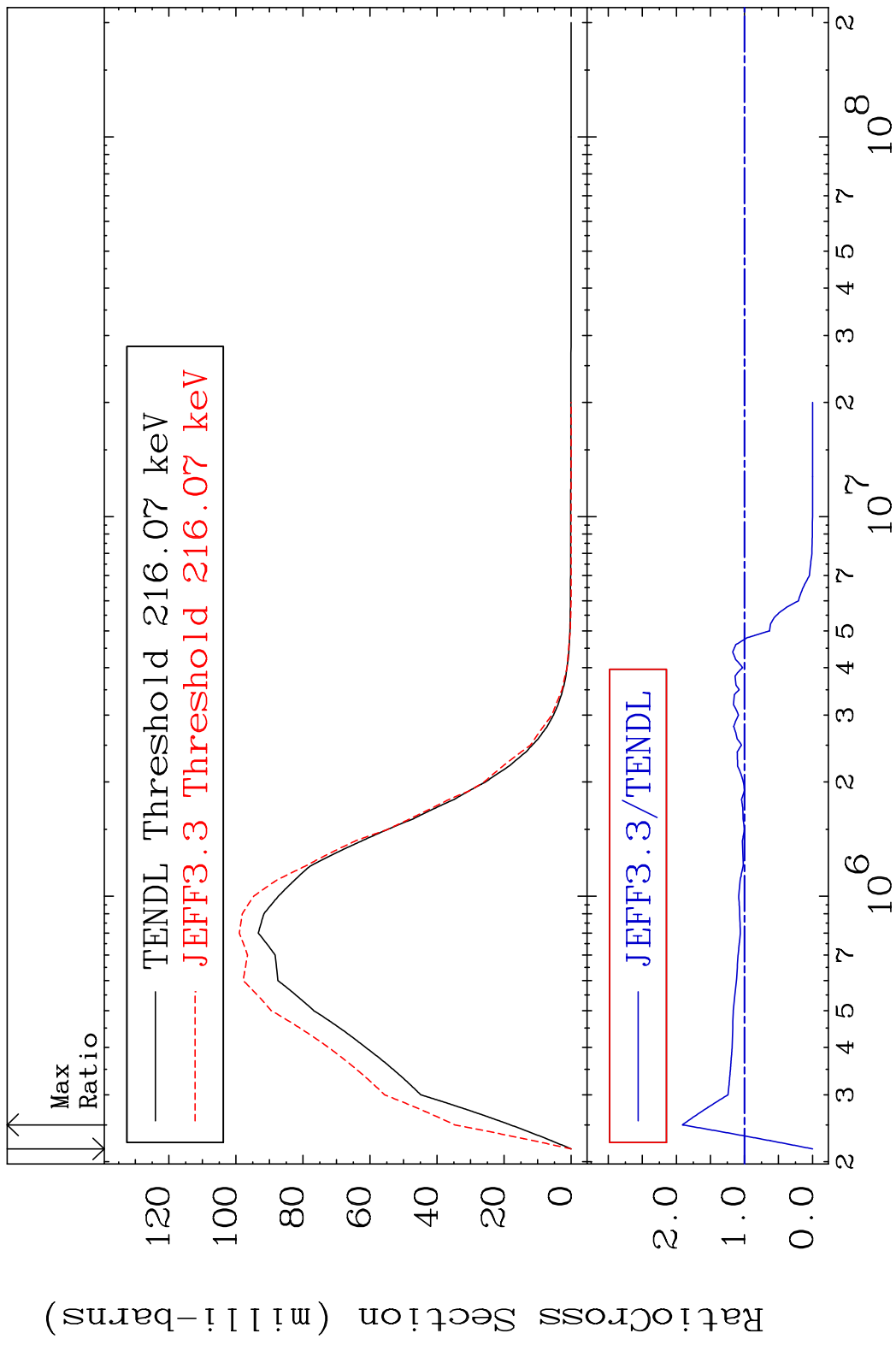
MAT 6040 MT= 52 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 126.6 %



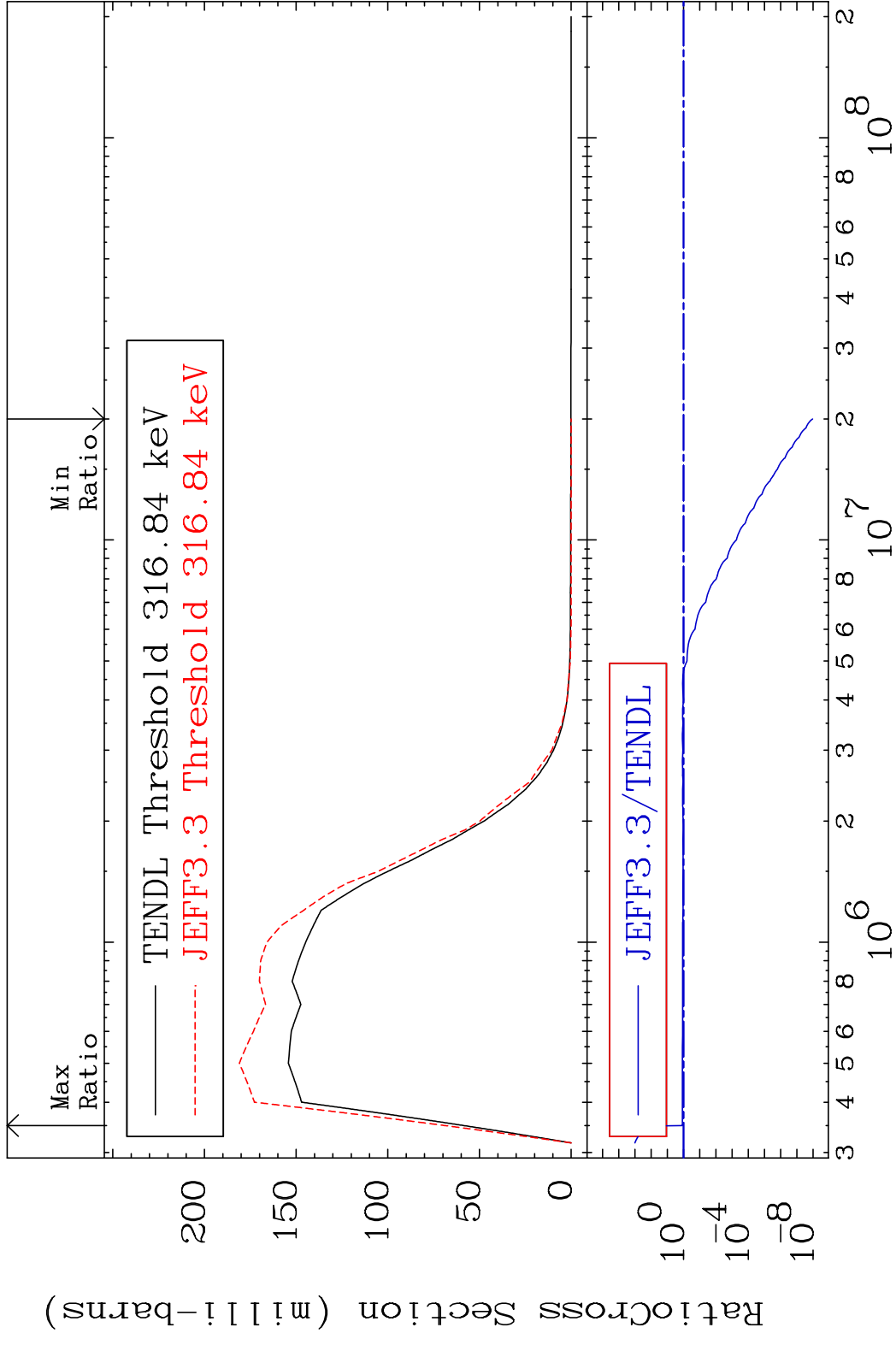
MAT 6040 MT= 53 (n, n') Level 60-Nd-147
 Cross Section -50.13 To 26.15 %



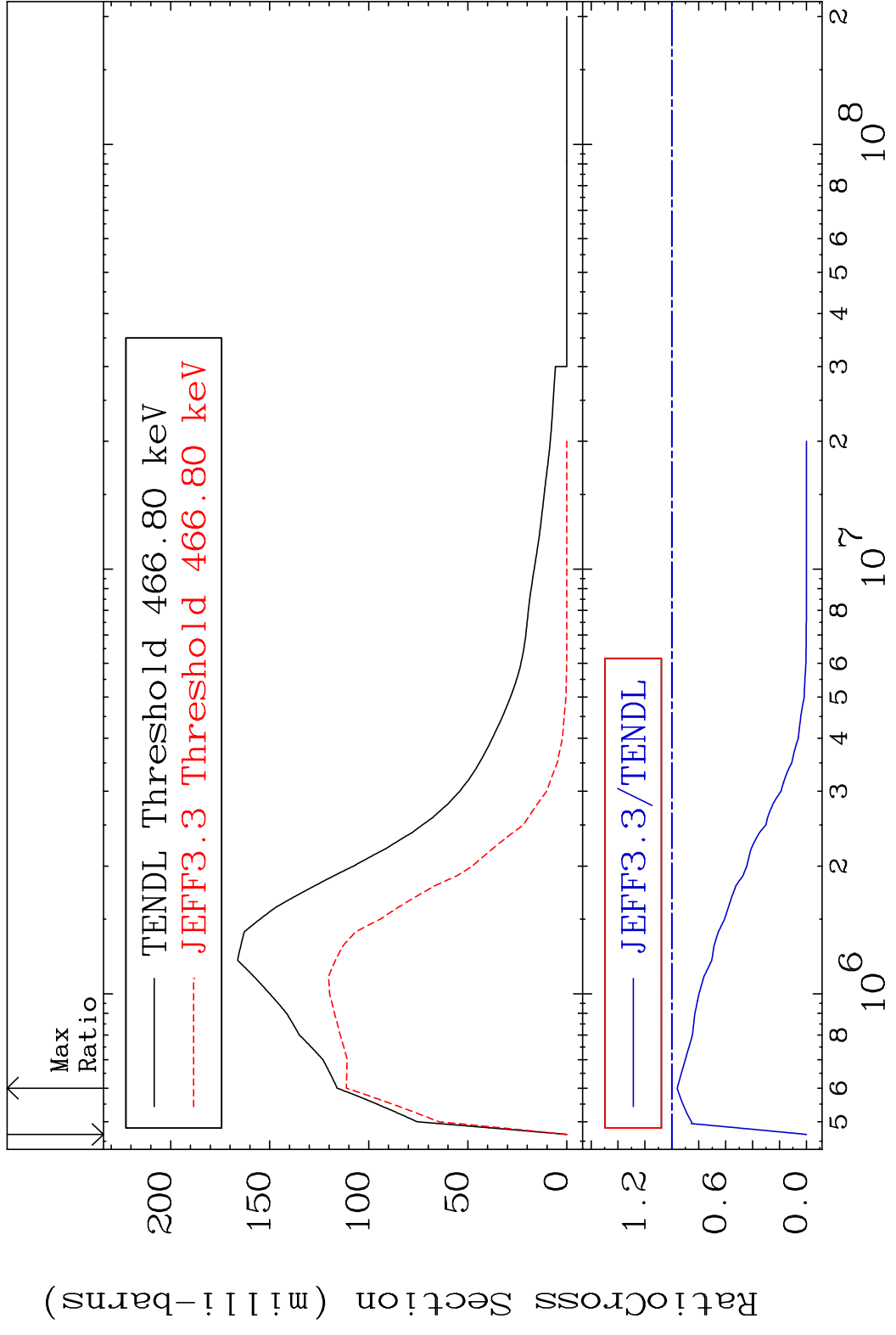
MAT 6040 MT= 54 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 91.18 %



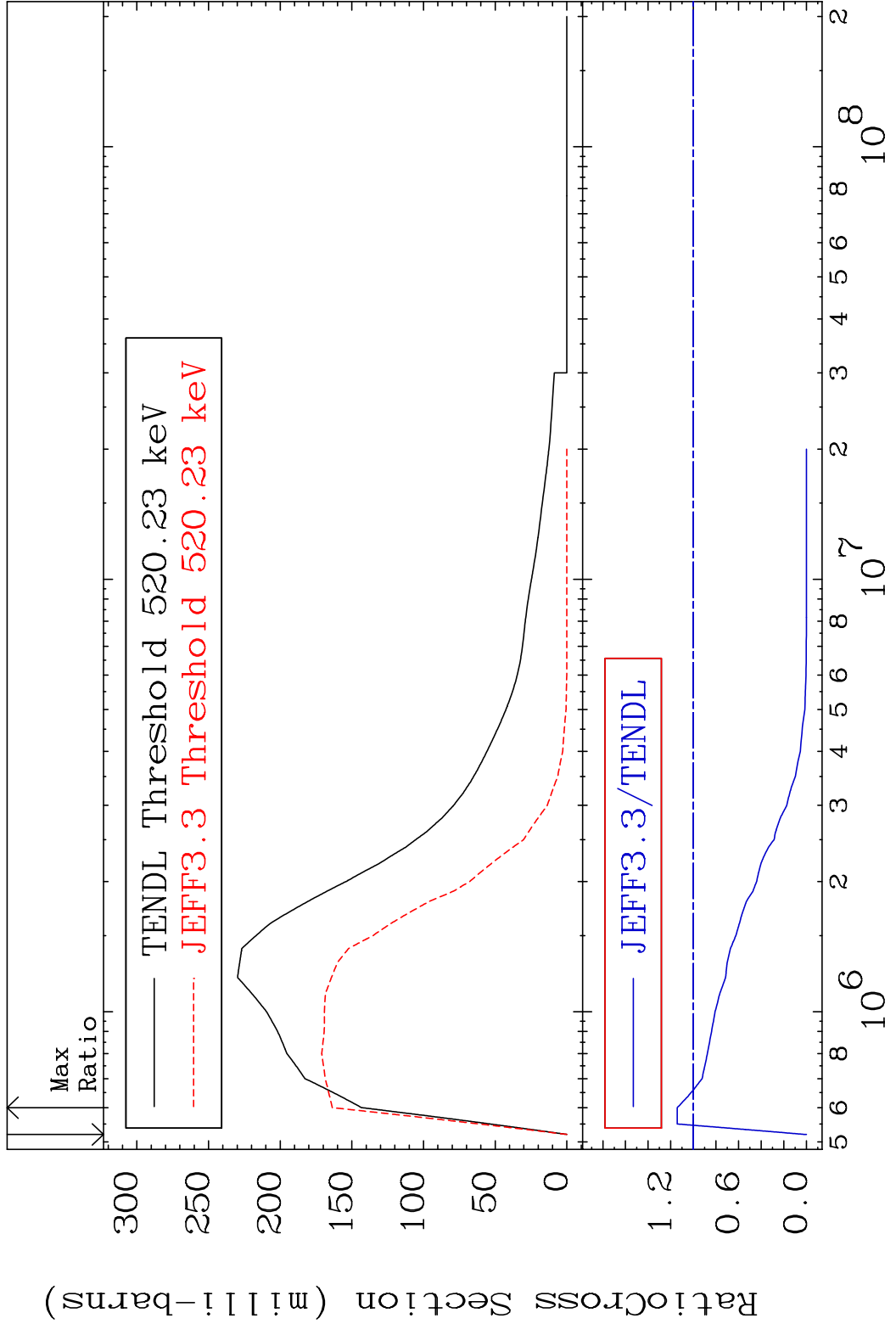
MAT 6040 MT= 55 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 17.53 %



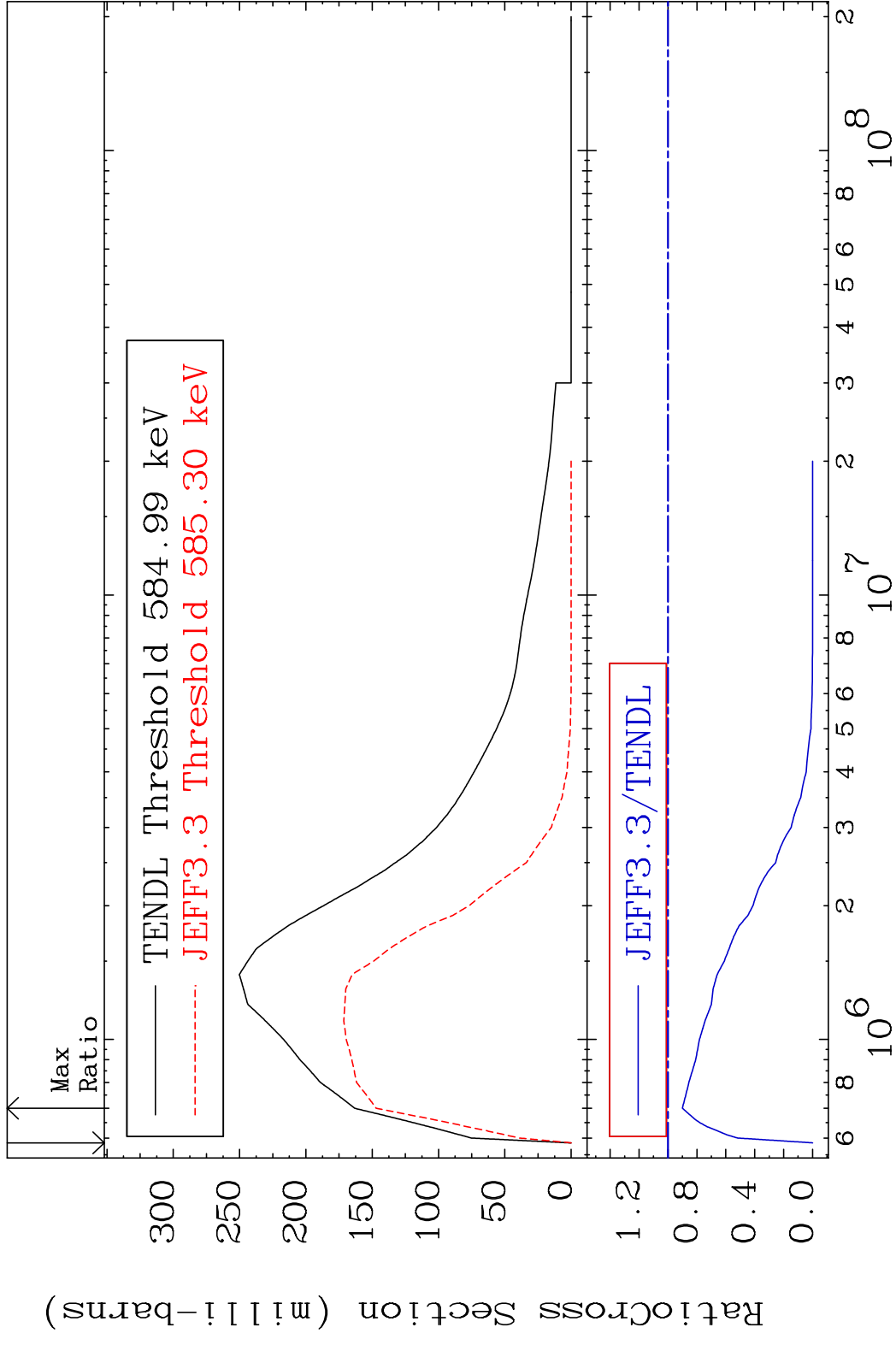
MAT 6040 MT= 56 (n, n') Level 60-Nd-147
 Cross Section -100.0 To -3.967%



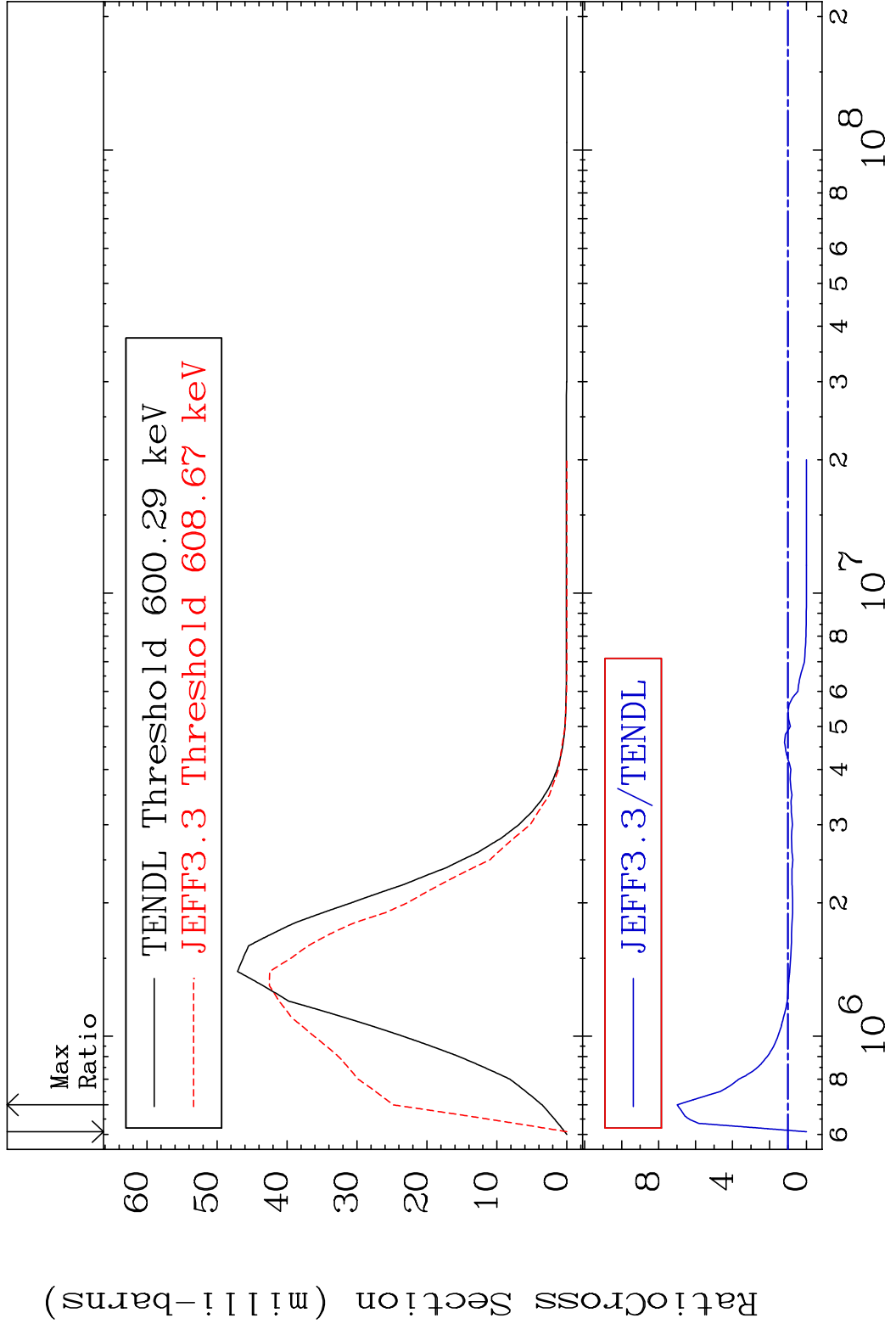
MAT 6040 MT= 57 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 14.29 %



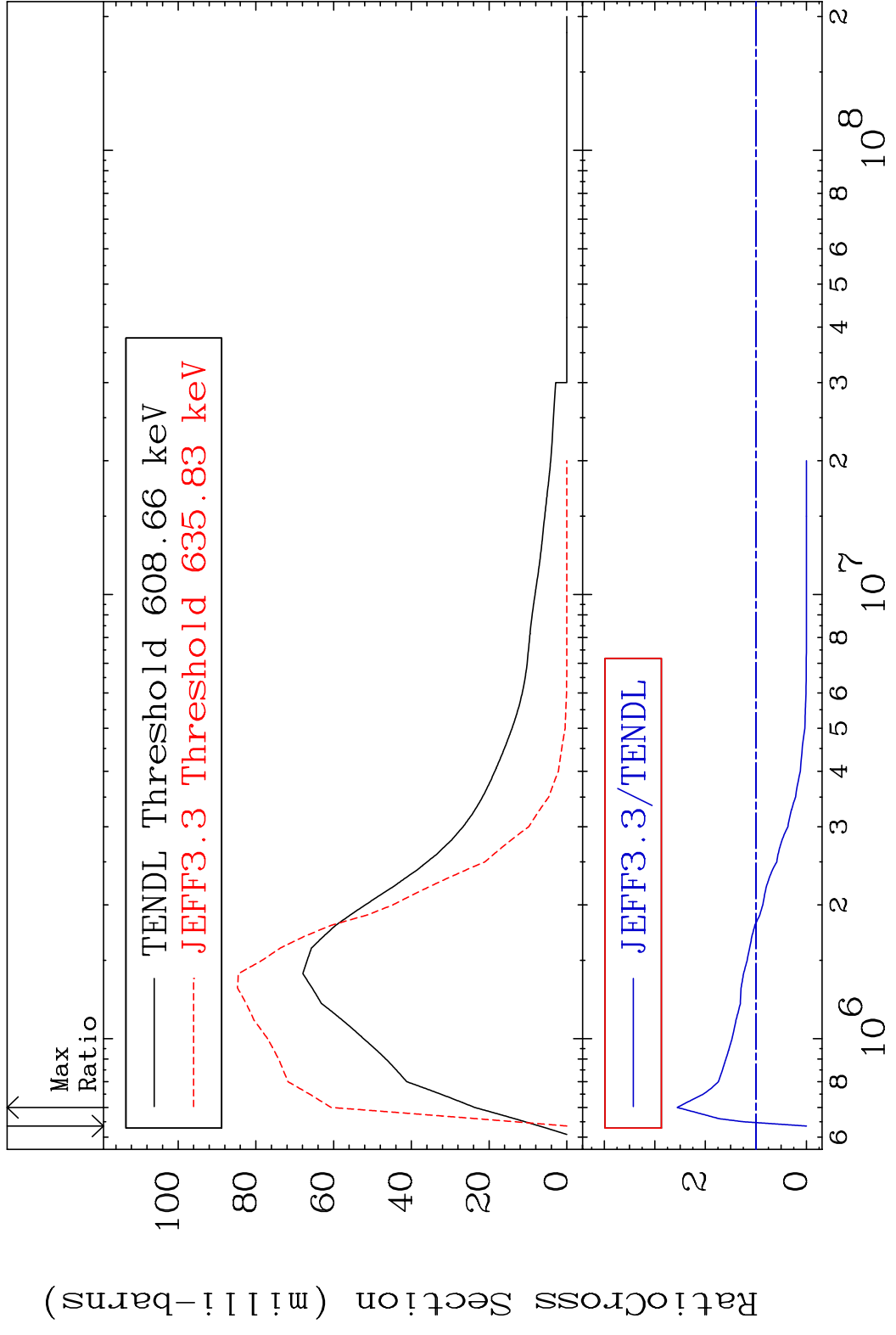
MAT 6040 MT= 58 (n, n') Level 60-Nd-147
 Cross Section -100.0 To -9.935%



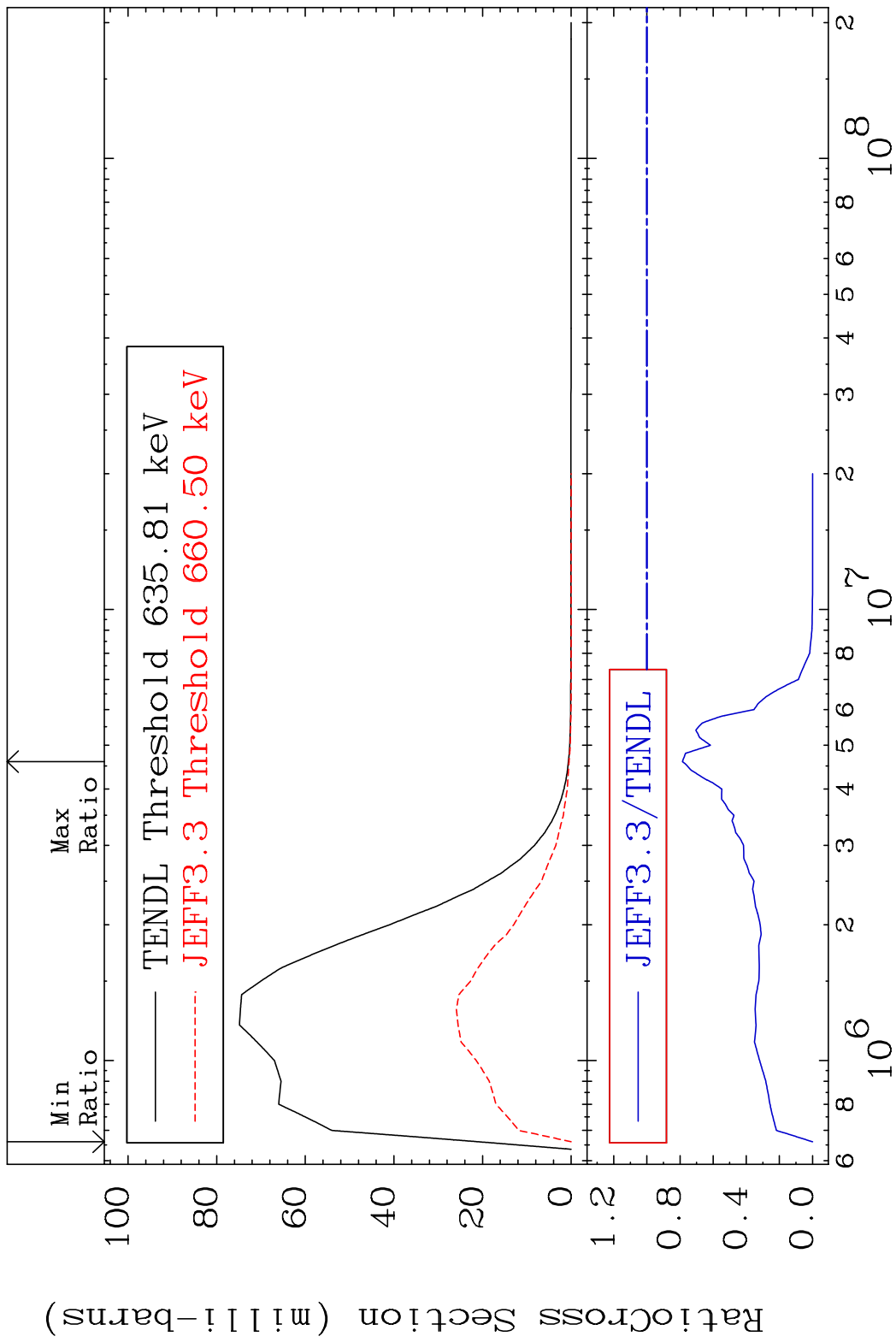
MAT 6040 MT= 59 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 599.5 %



MAT 6040 MT= 60 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 155.8 %

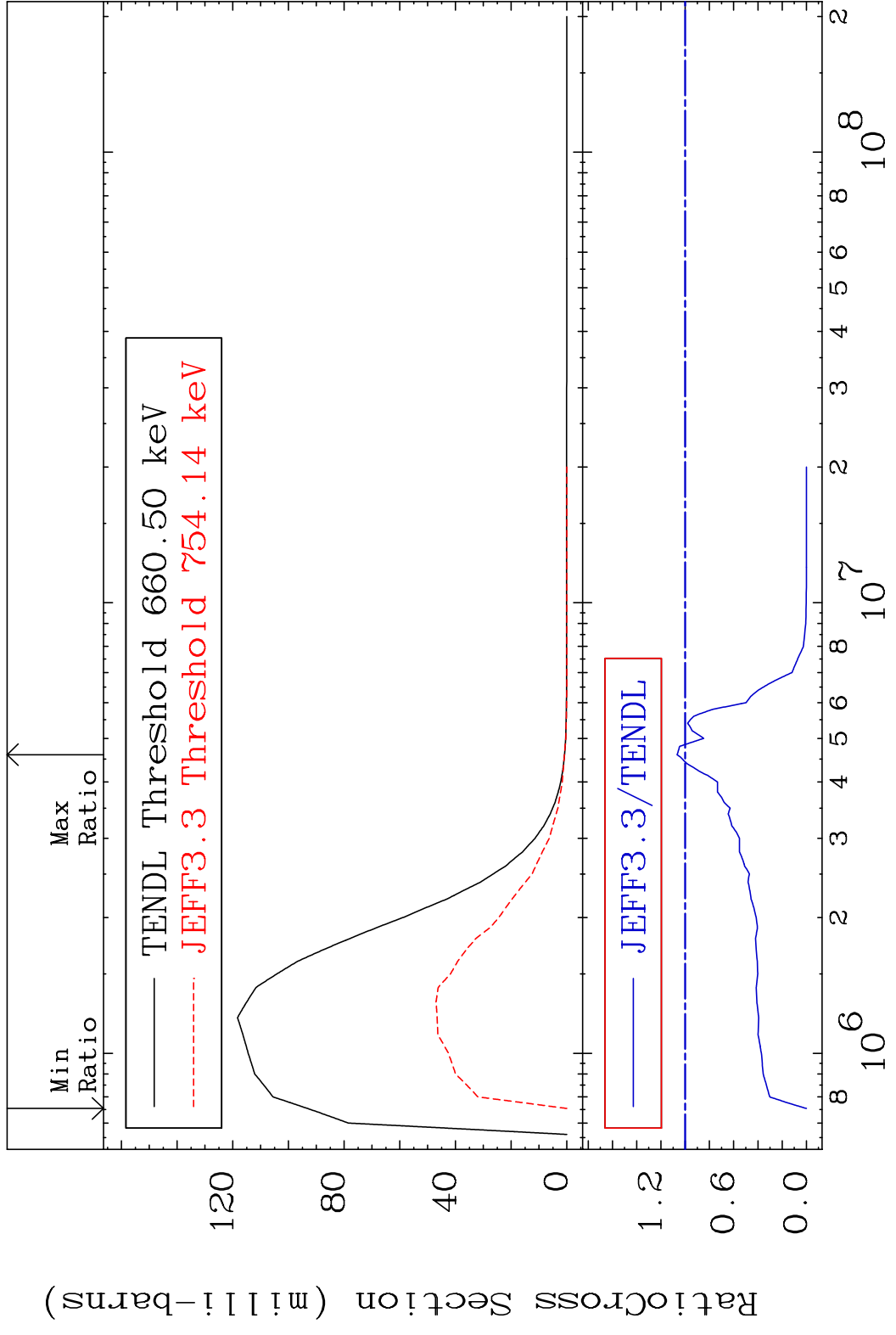


MAT 6040 MT= 61 (n, n') Level 60-Nd-147
 Cross Section -100.0 To -21.42%

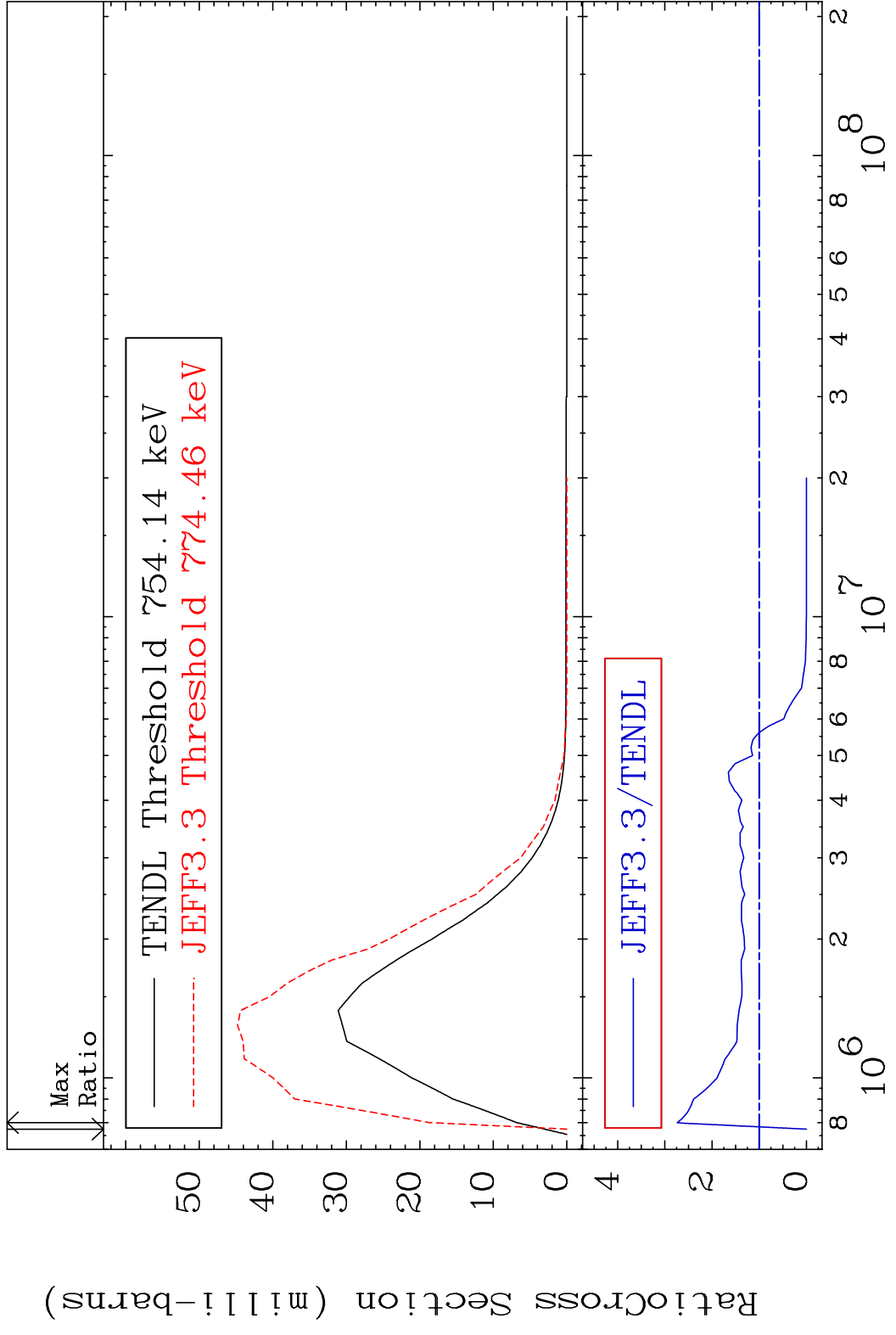


20 Incident Energy (eV) 60-Nd-147

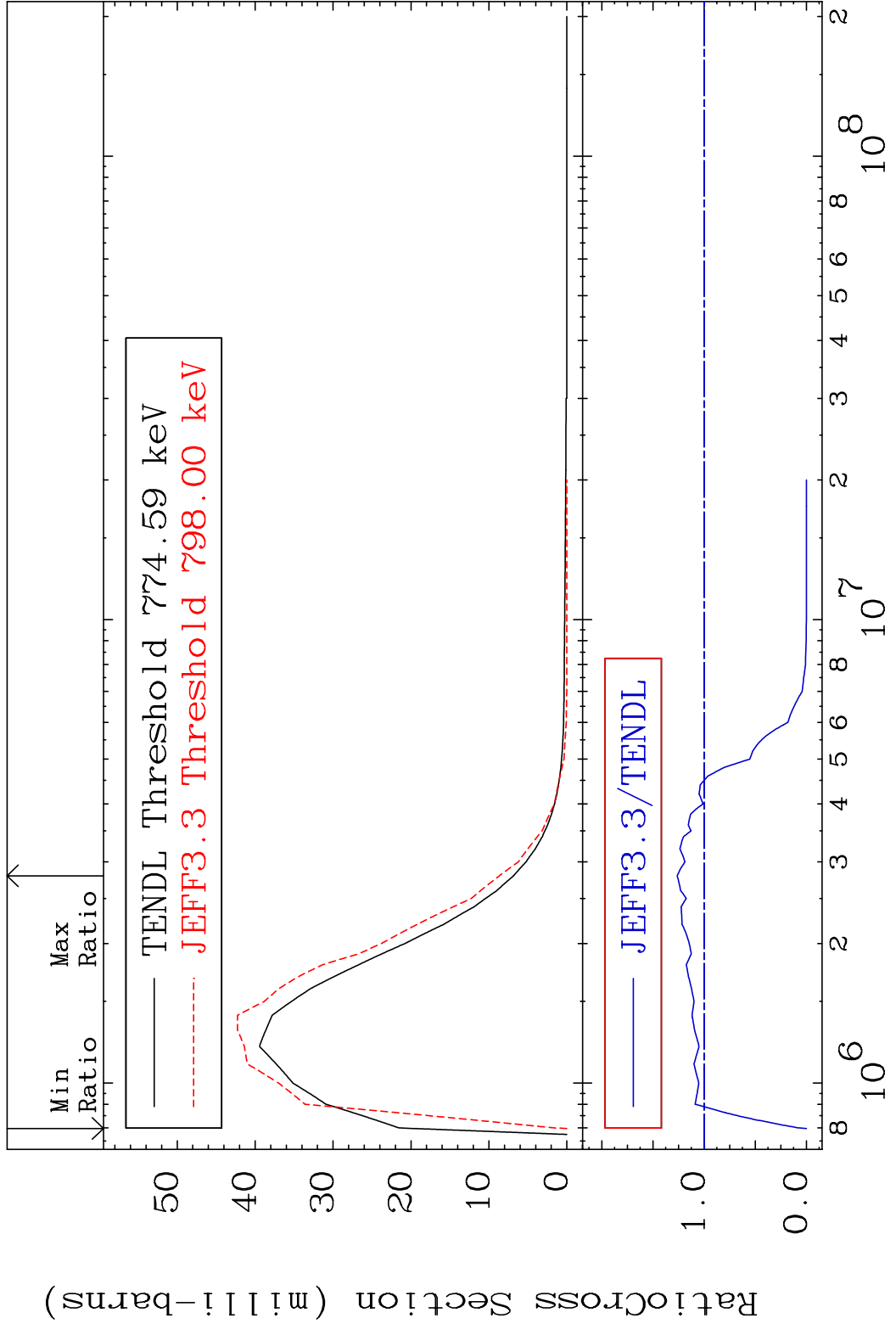
MAT 6040 MT= 62 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 6.596 %



MAT 6040 MT= 63 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 173.9 %

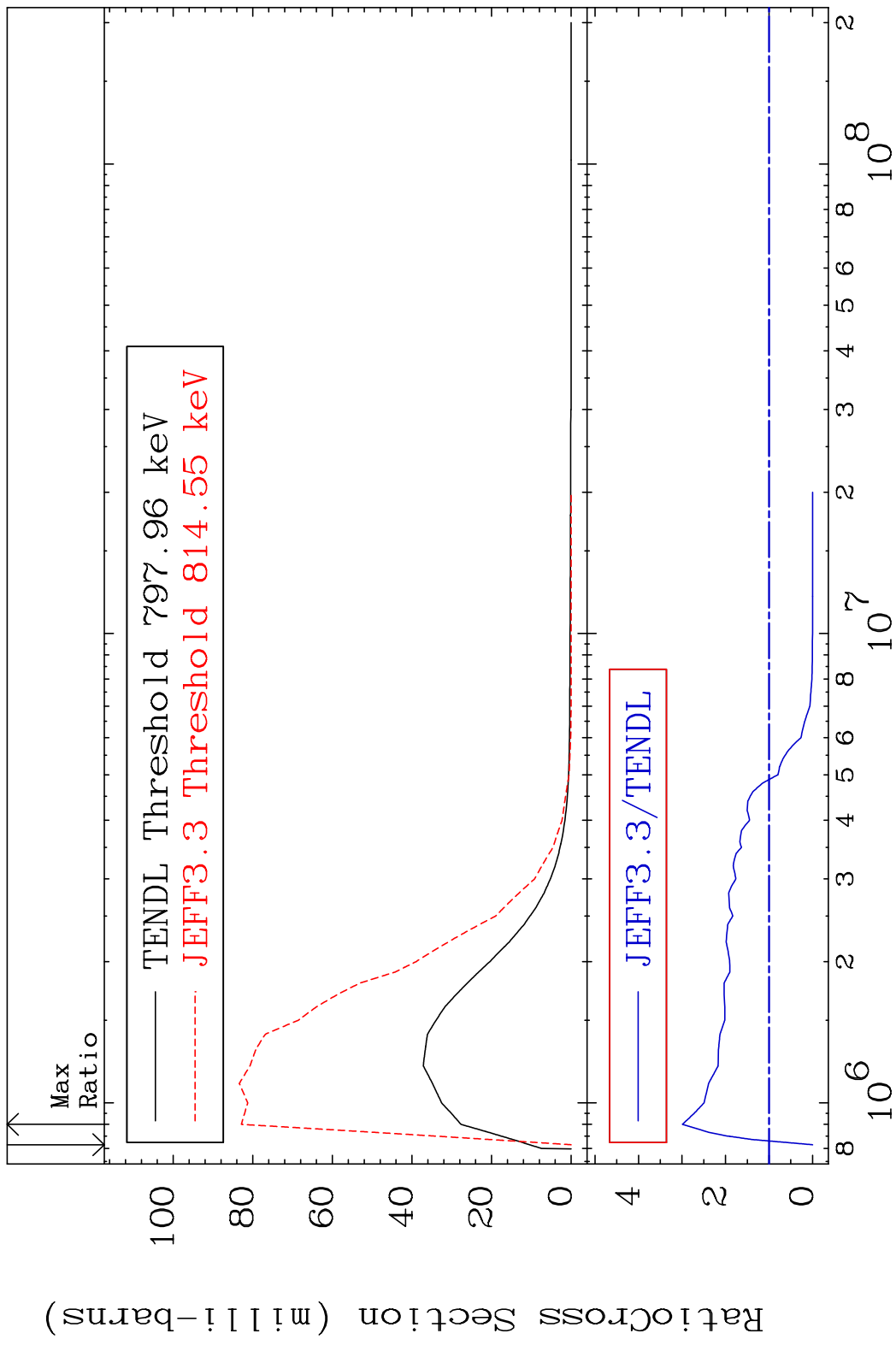


MAT 6040 MT= 64 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 26.32 %

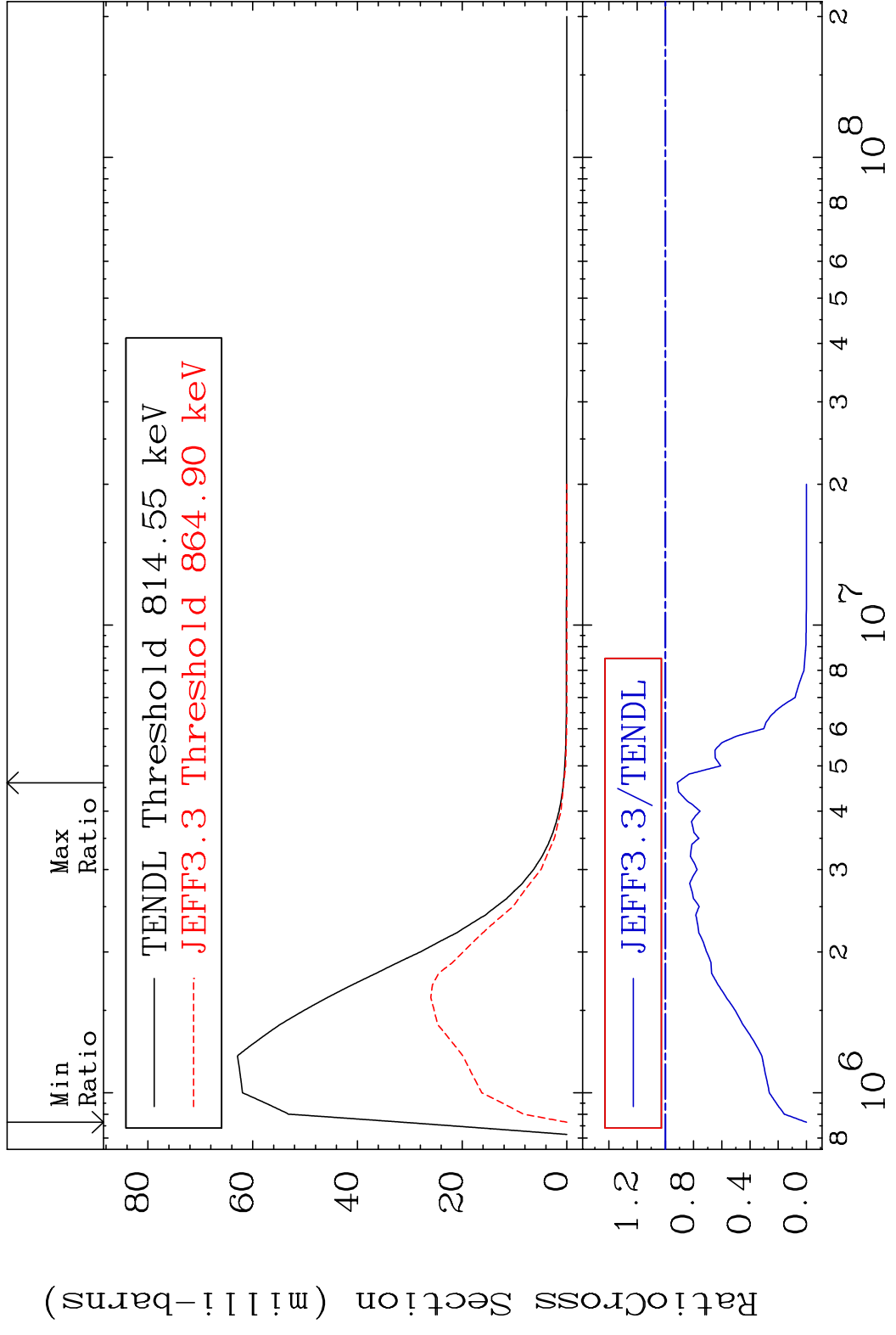


23 Incident Energy (eV) 60-Nd-147

MAT 6040 MT= 65 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 199.3 %

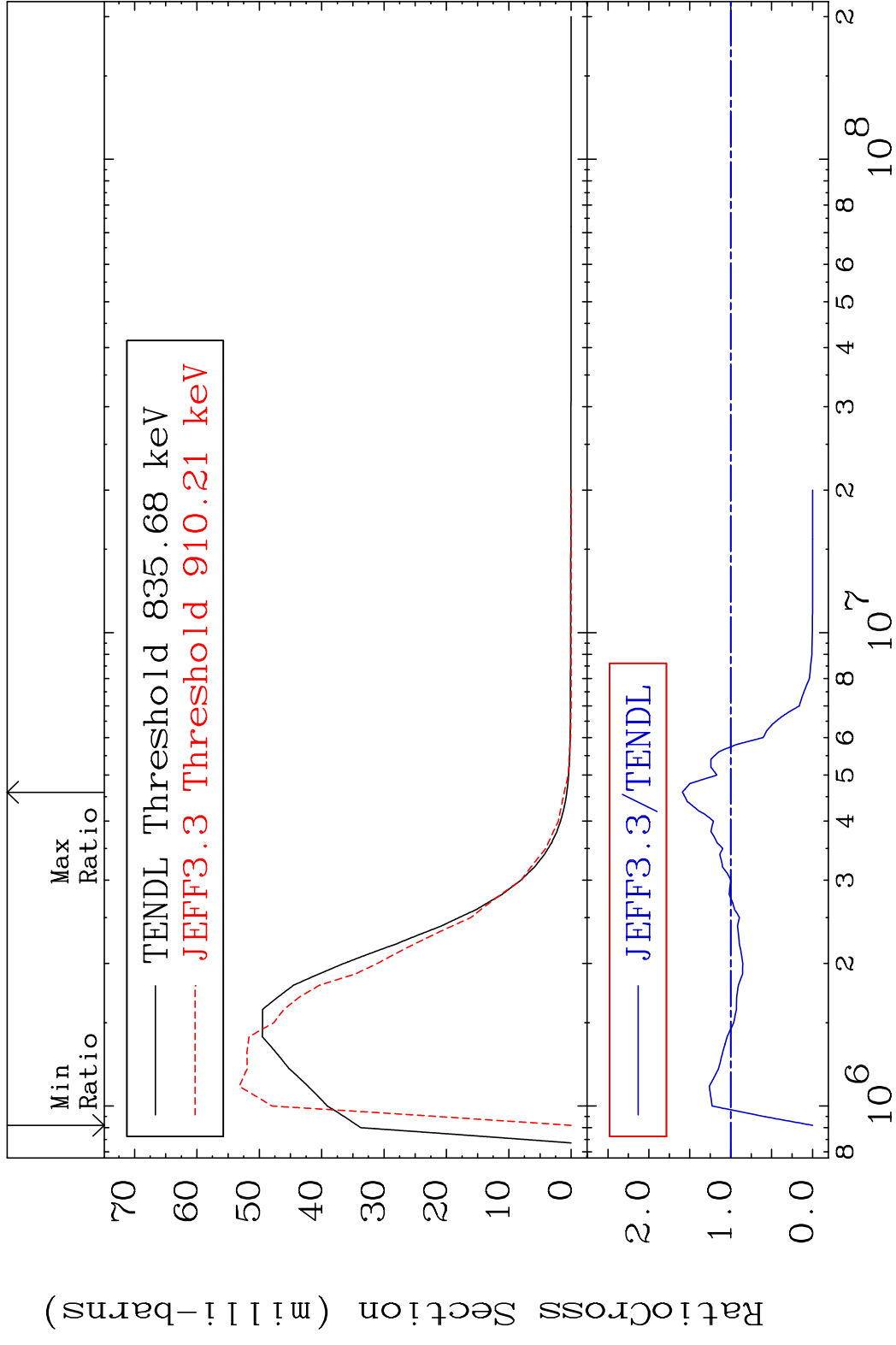


MAT 6040 MT= 66 (n, n') Level 60-Nd-147
 Cross Section -100.0 To -8.375%

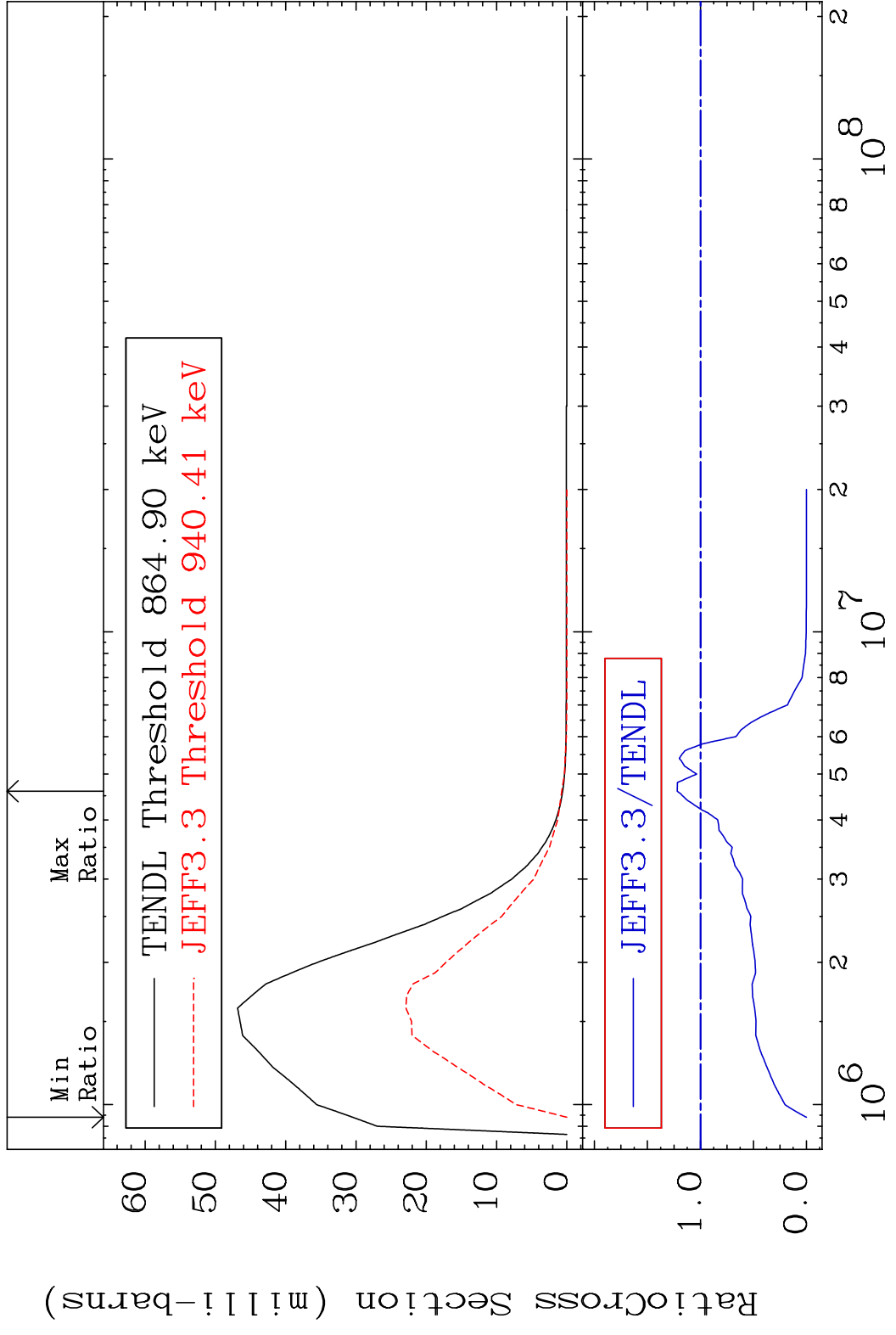


25 Incident Energy (eV) 60-Nd-147

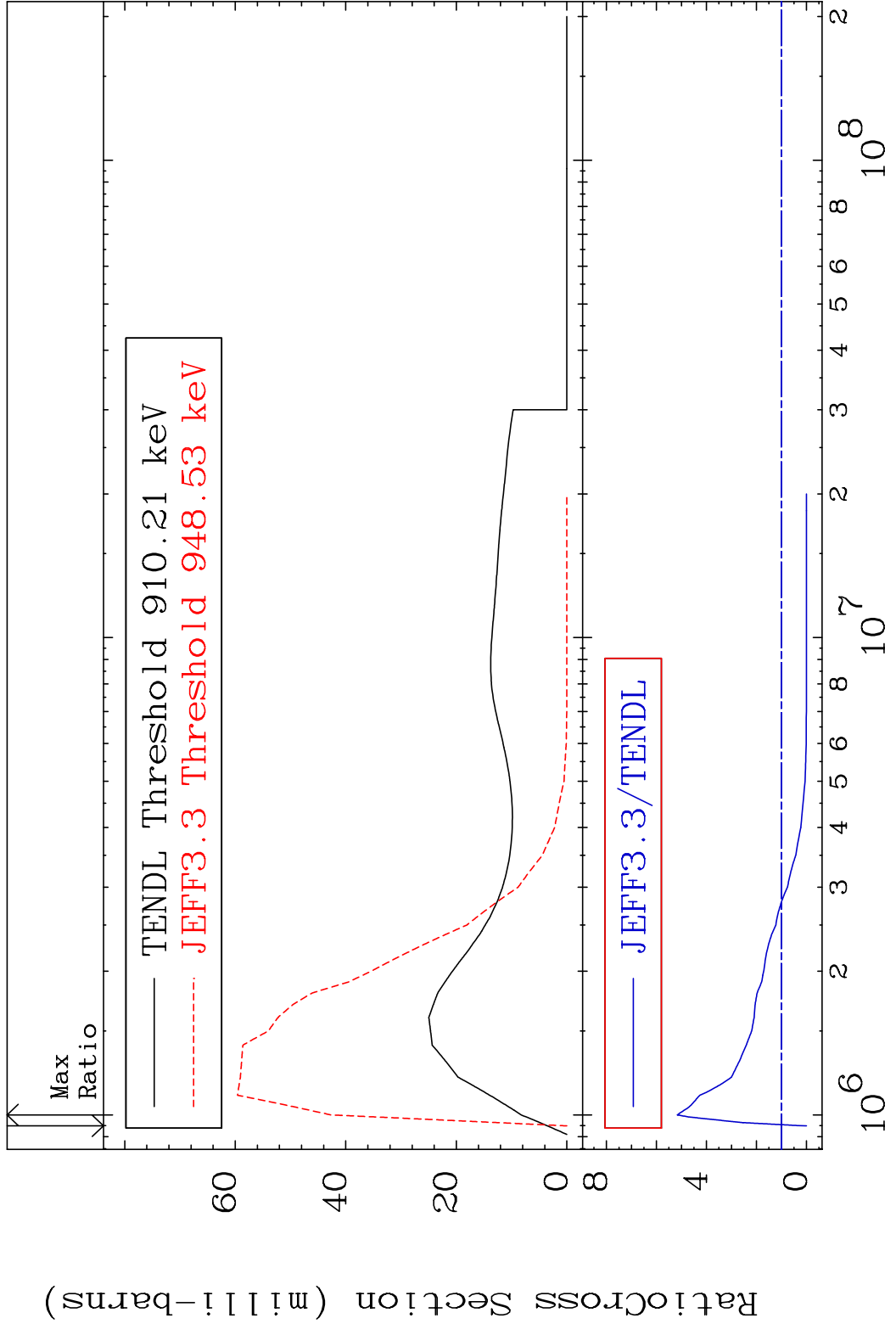
MAT 6040 MT= 67 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 59.08 %



MAT 6040 MT= 68 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 21.94 %

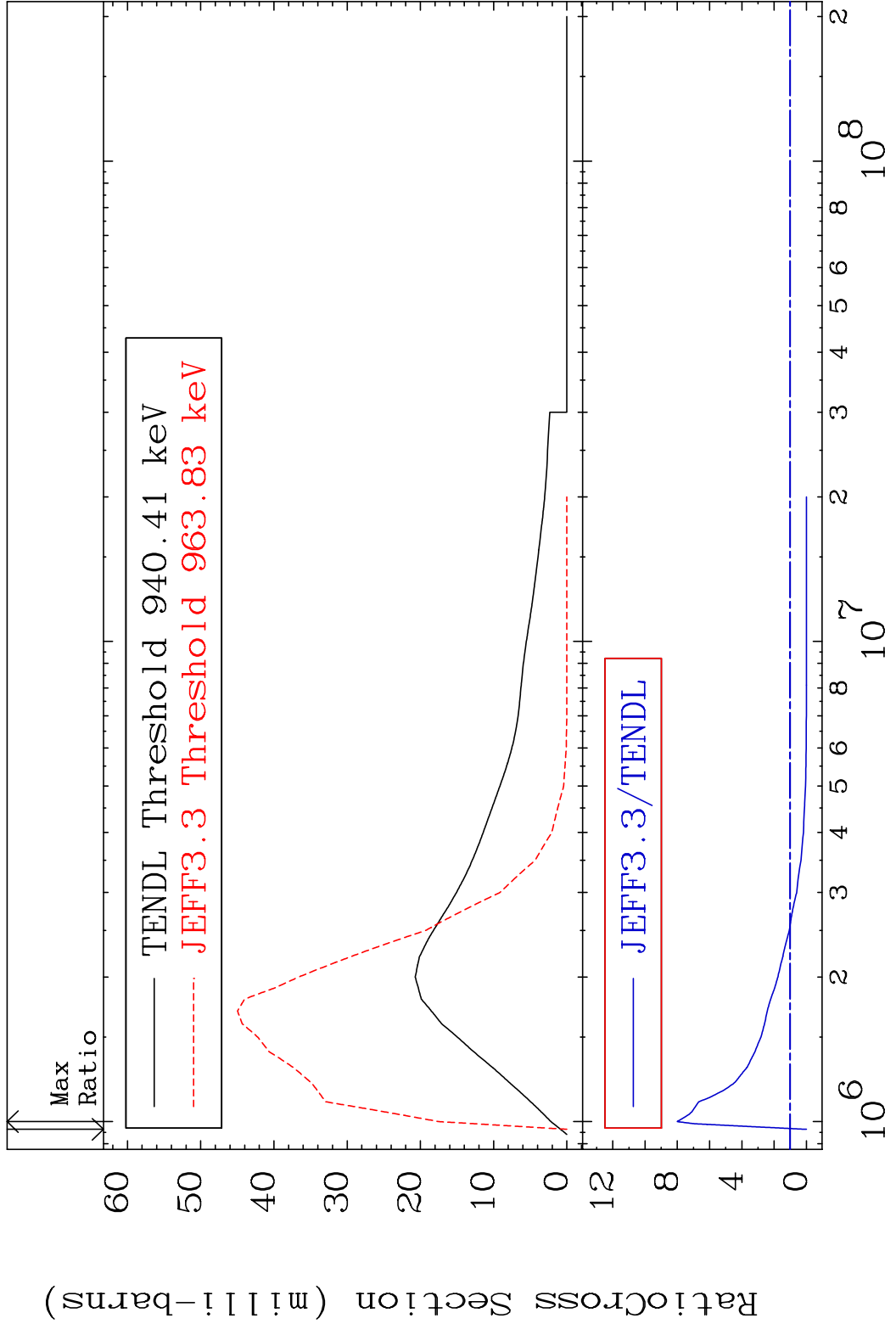


MAT 6040 MT= 69 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 417.1 %



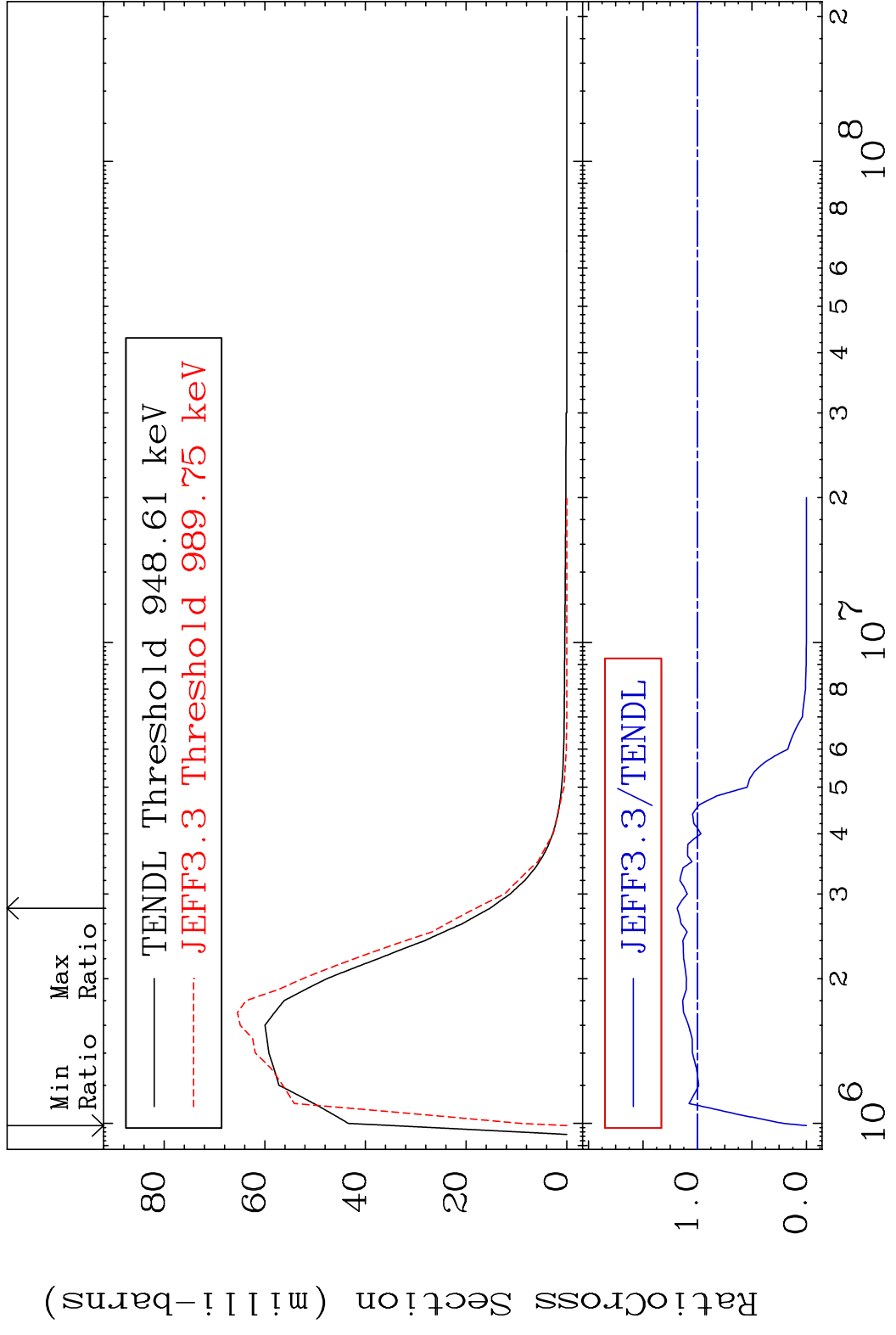
28 Incident Energy (eV) 60-Nd-147

MAT 6040 MT= 70 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 700.8 %

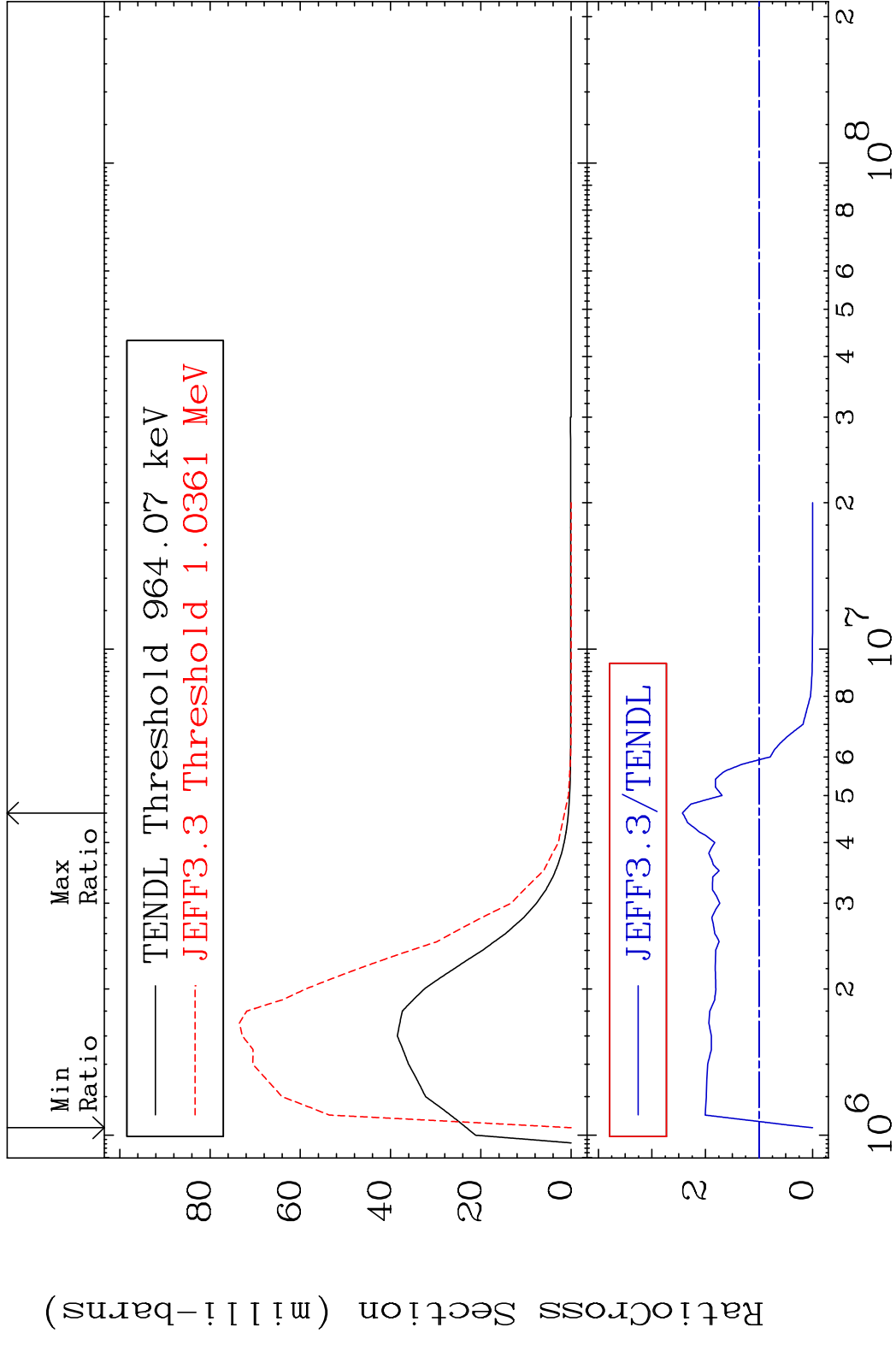


29 Incident Energy (eV) 60-Nd-147

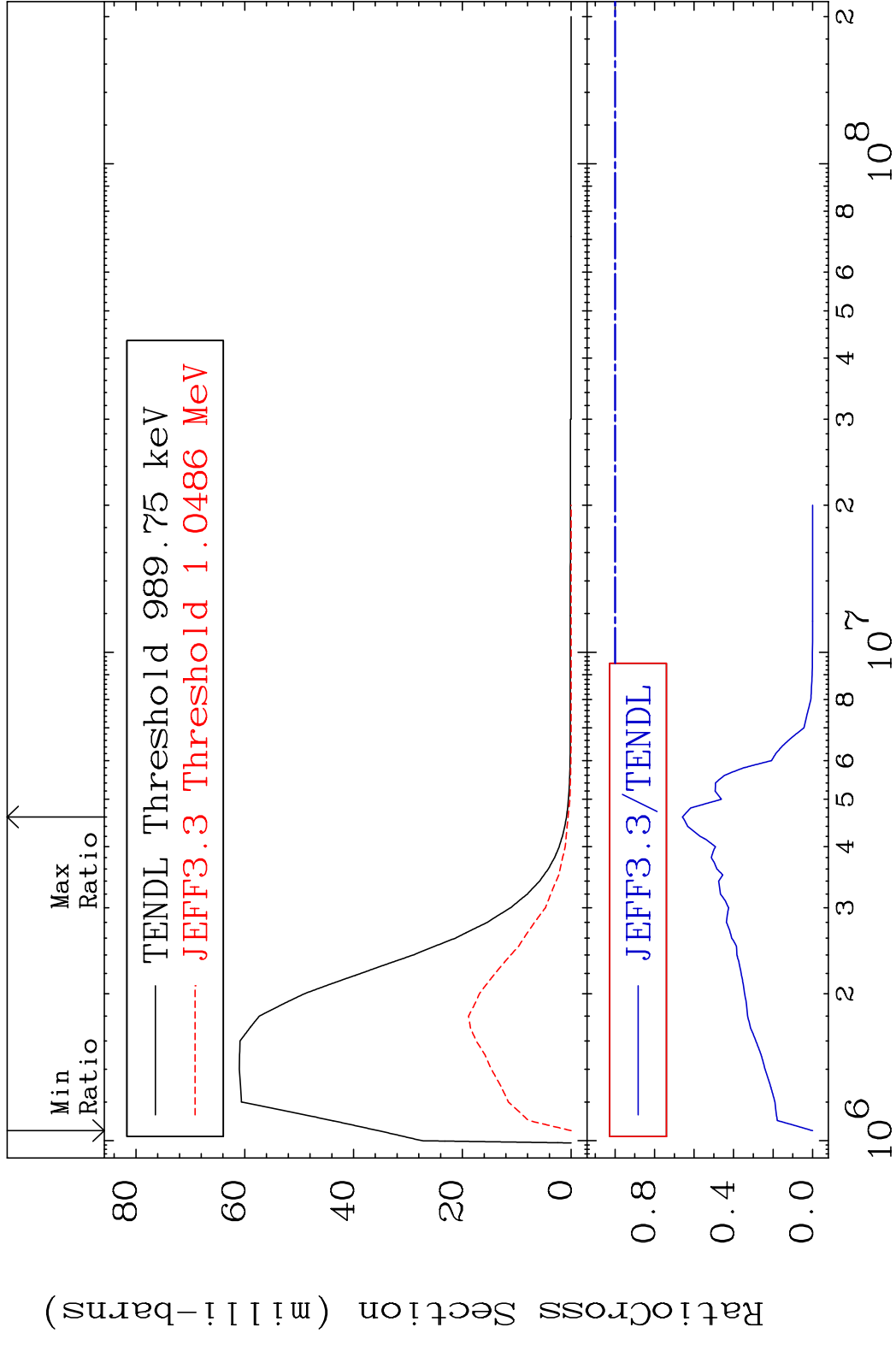
MAT 6040 MT= 71 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 18.57 %



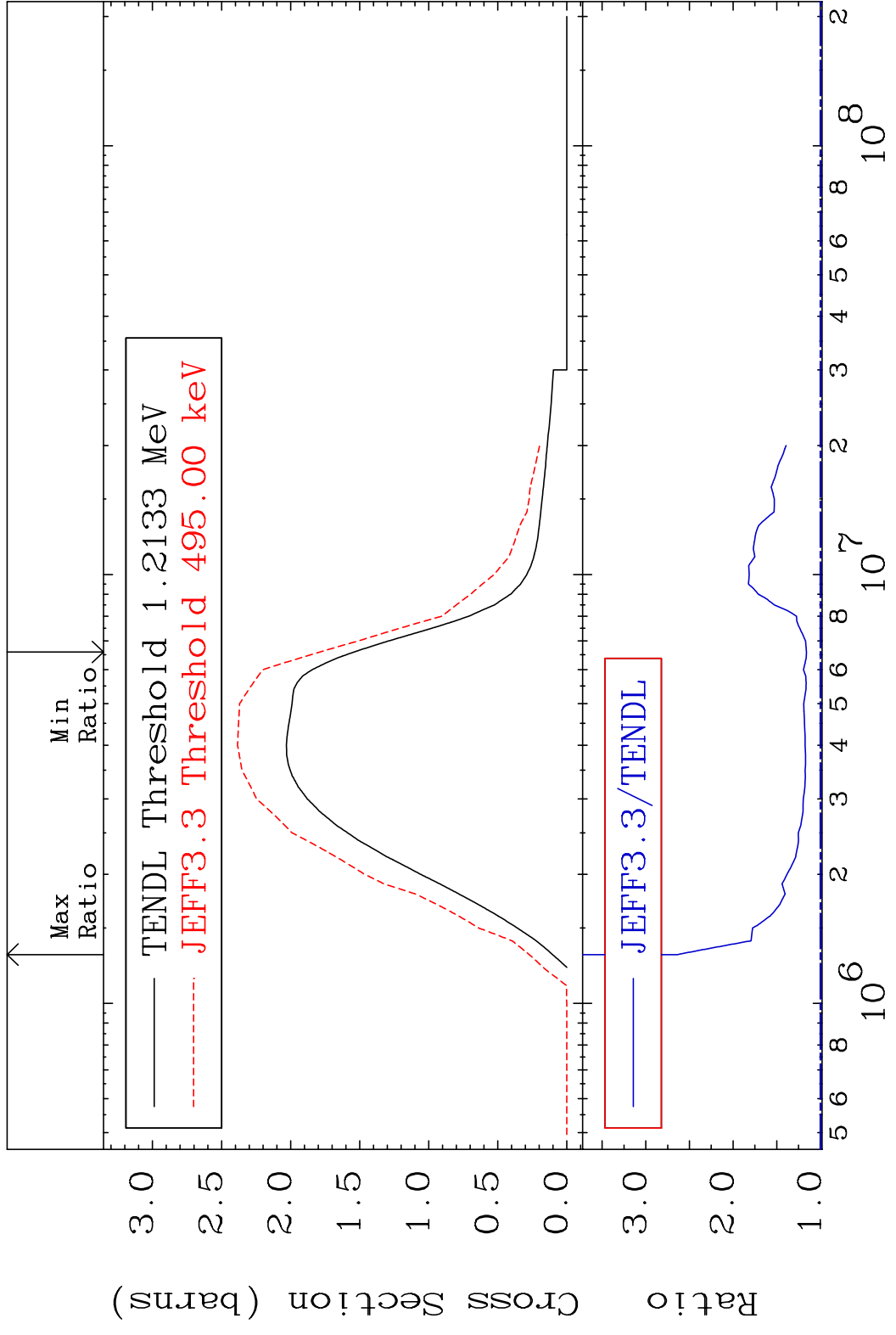
MAT 6040 MT= 72 (n, n') Level 60-Nd-147
 Cross Section -100.0 To 143.2 %



MAT 6040 MT= 73 (n, n') Level 60-Nd-147
 Cross Section -100.0 To -34.08%

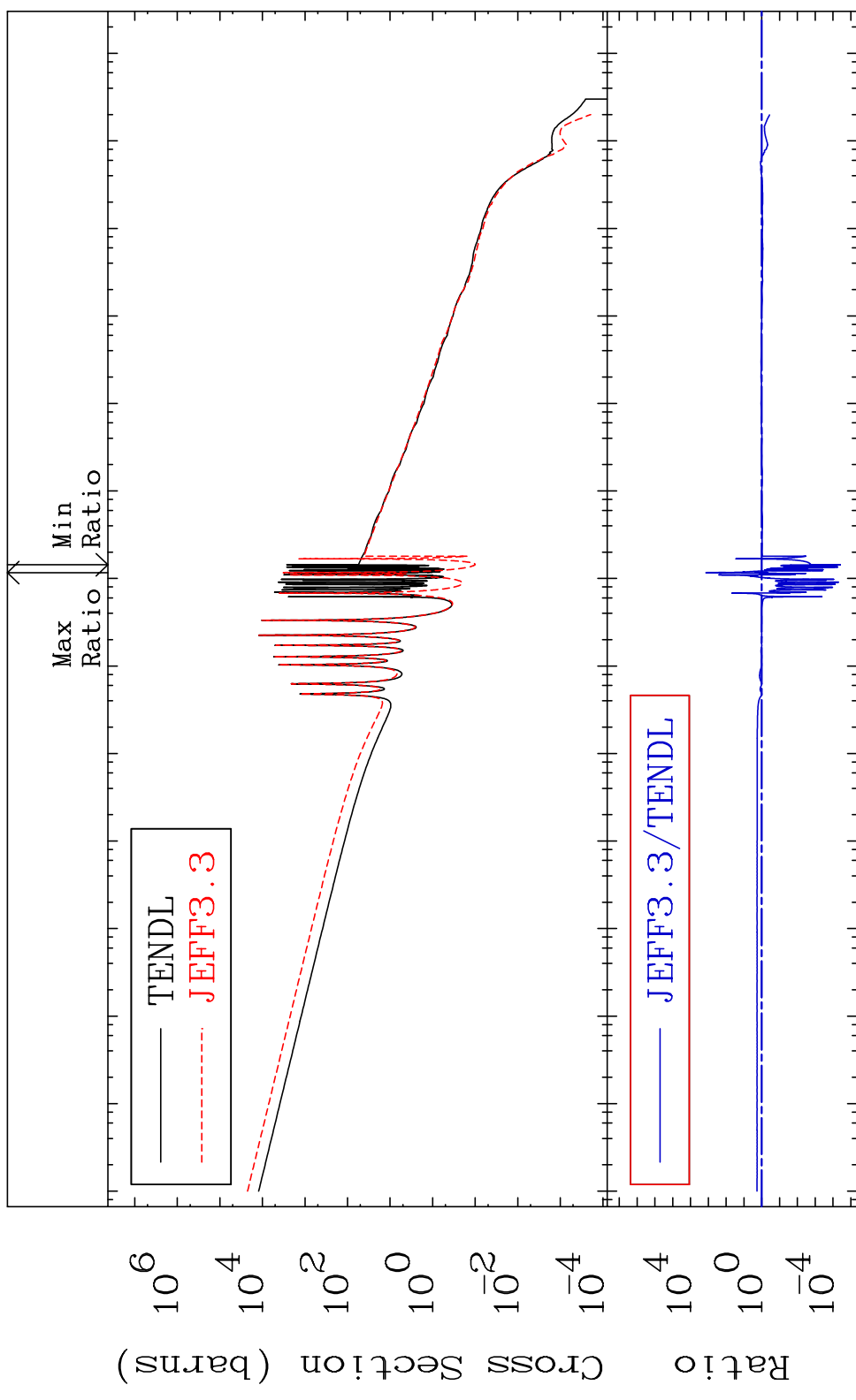


MAT 6040 (n, n') Continuum 60-Nd-147
 Cross Section 16.00 To 164.0 %

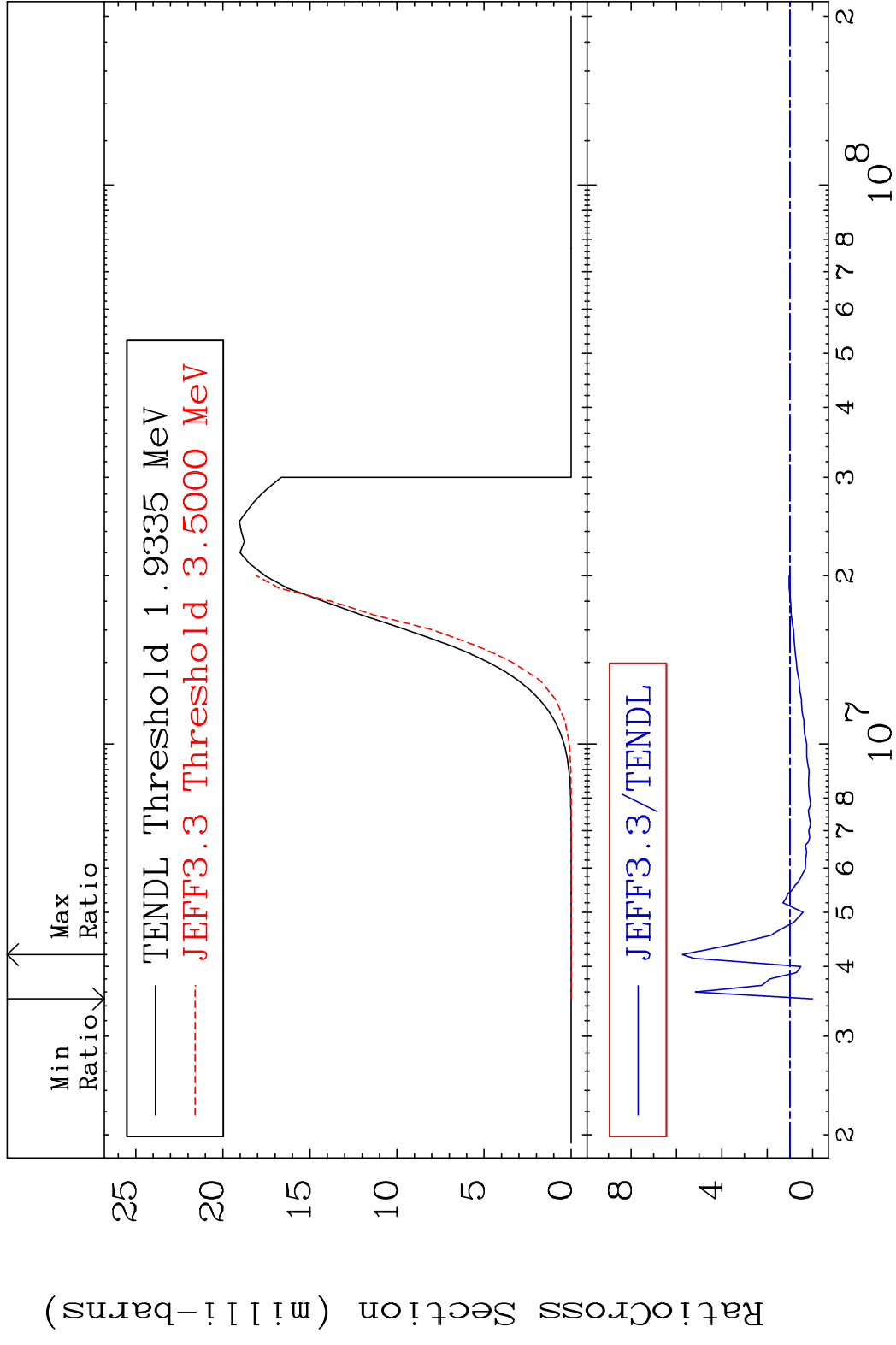


MAT 6040

(n, γ)
Cross Section -100.0 To 9999. %
60-Nd-147



MAT 6040 (n,p) 60-Nd-147
 Cross Section -100.0 To 474.0 %



35 Incident Energy (eV) 60-Nd-147

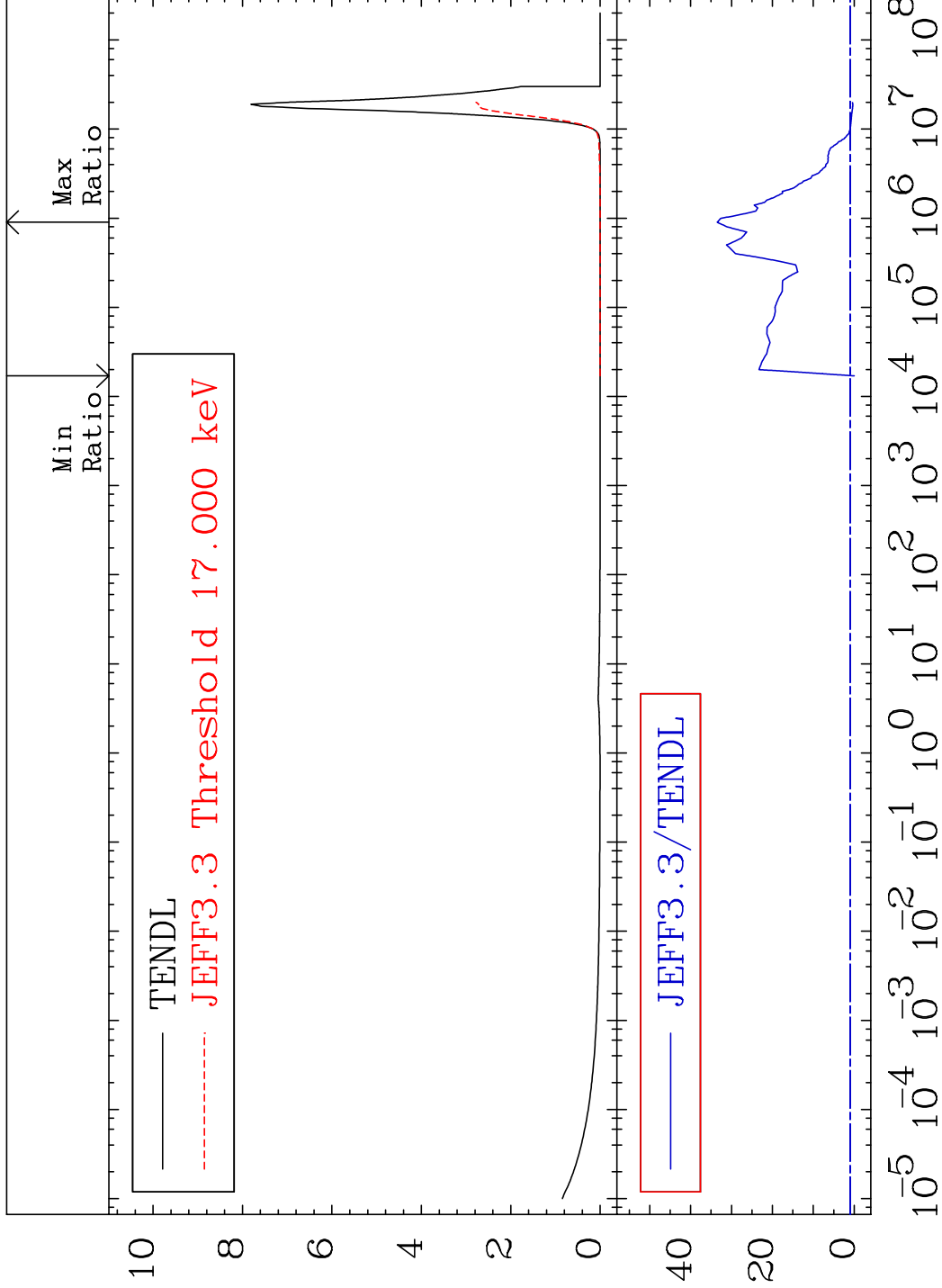
MAT 6040

(n, α)

60-Nd-147

Cross Section -100.0 To 3251. %

RatioCross Section (milli-barns)

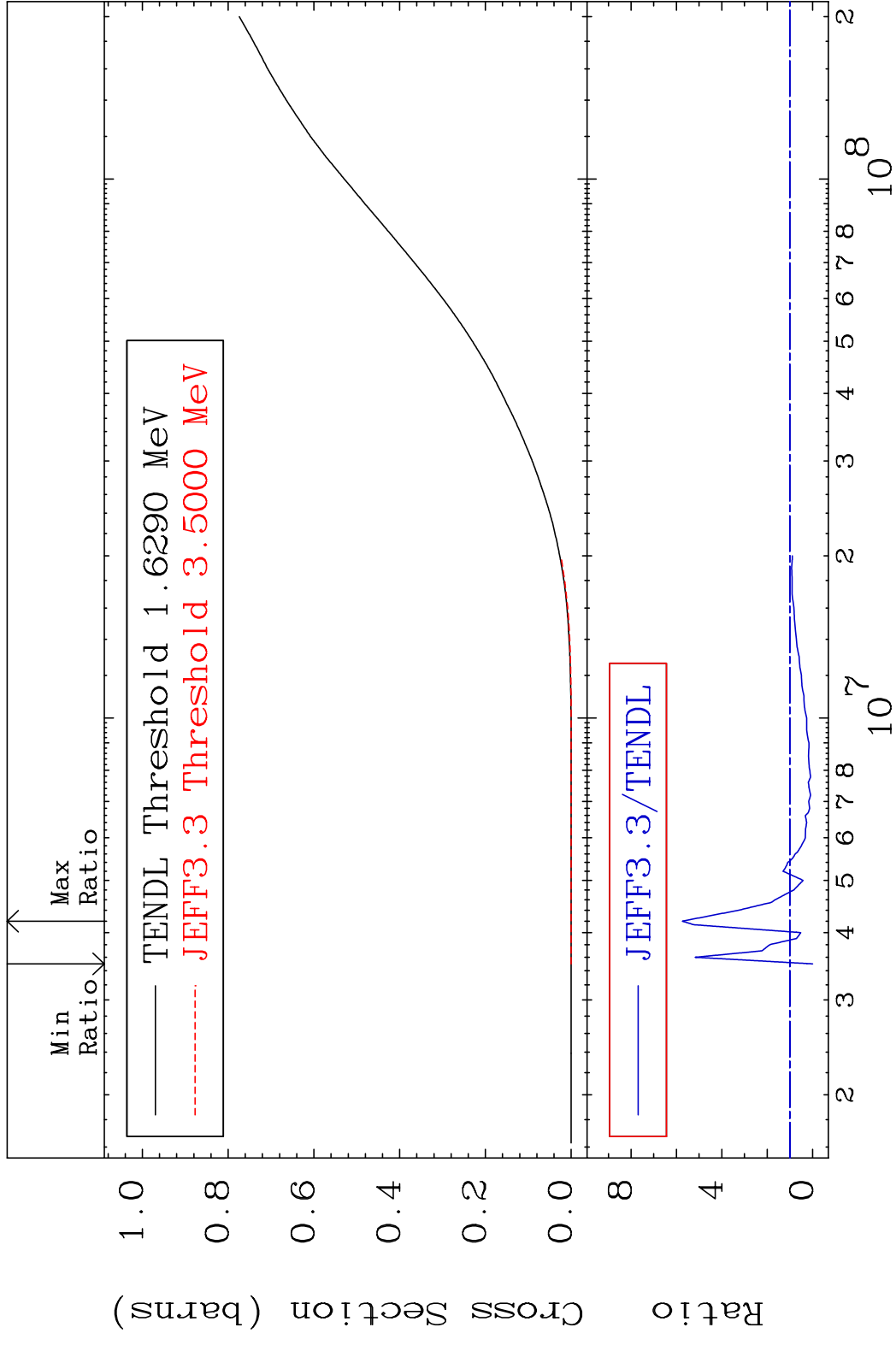


36

Incident Energy (eV)

60-Nd-147

MAT 6040 Hydrogen Production 60-Nd-147
 Cross Section -100.0 To 474.0 %

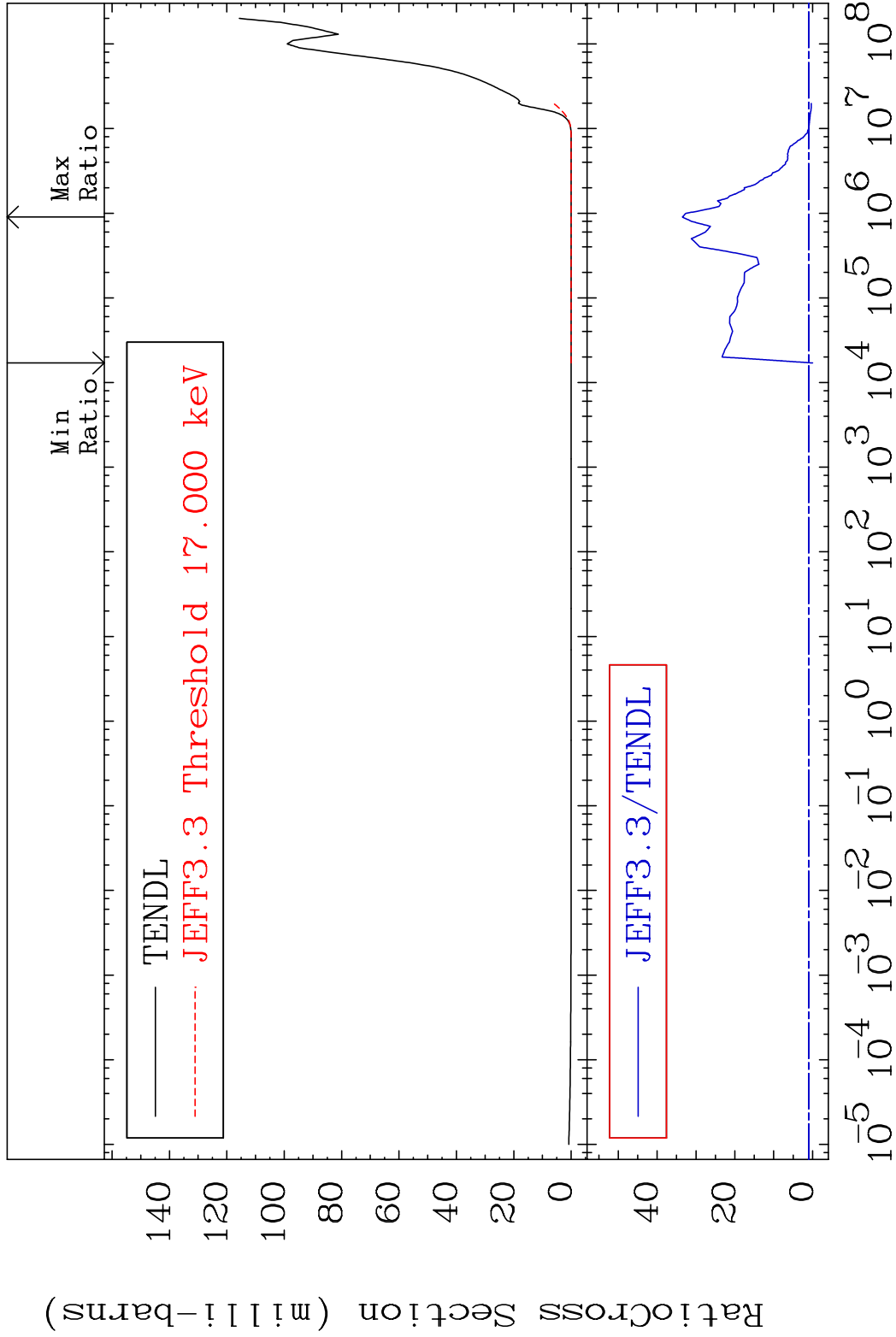


MAT 6040

He-4 Production

60-Nd-147

Cross Section -100.0 To 3251. %

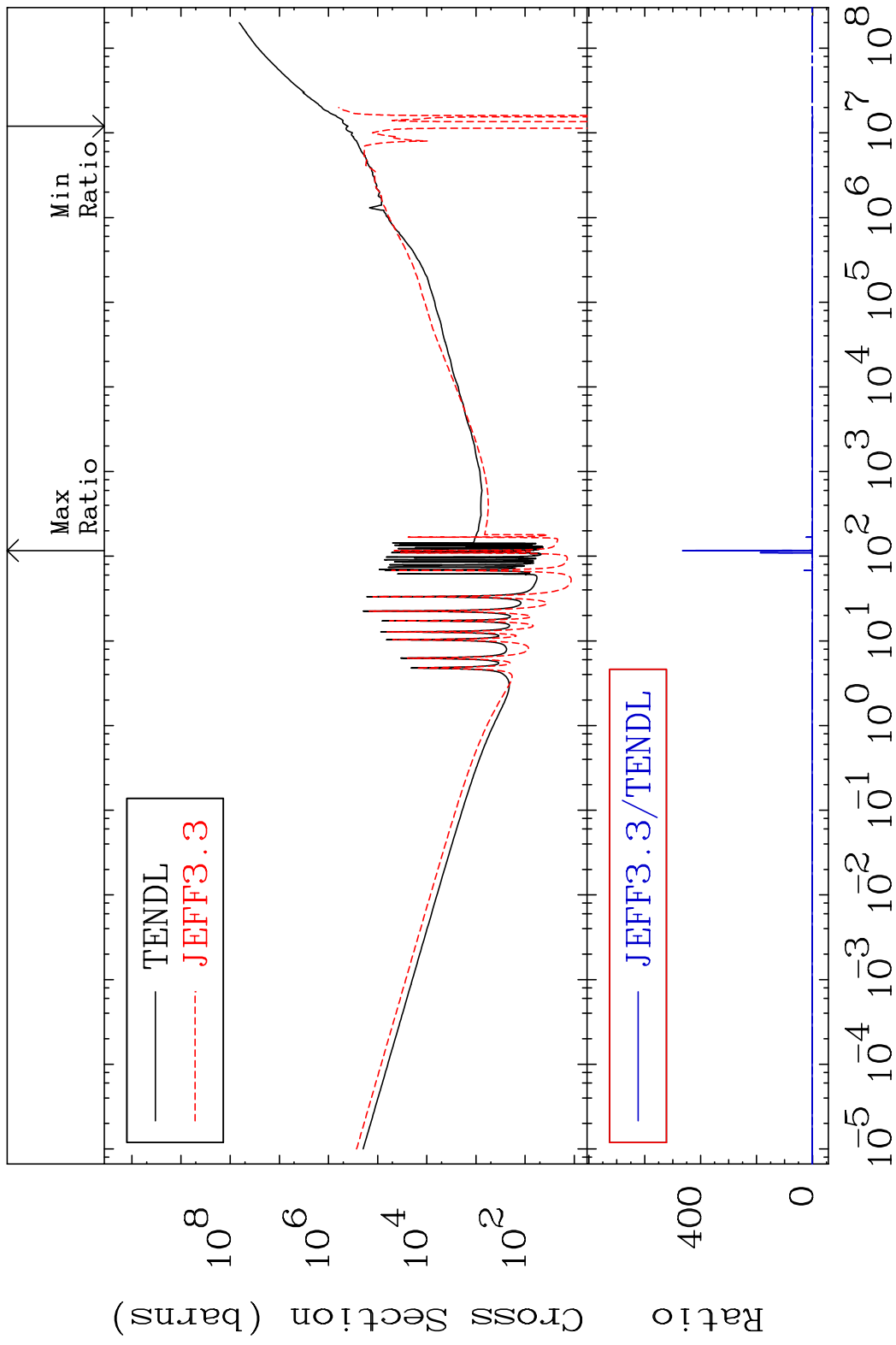


38

Incident Energy (eV)

60-Nd-147

MAT 6040 Kerma total (eV-barns) 60-Nd-147
Cross Section -121.1 To 9999. %

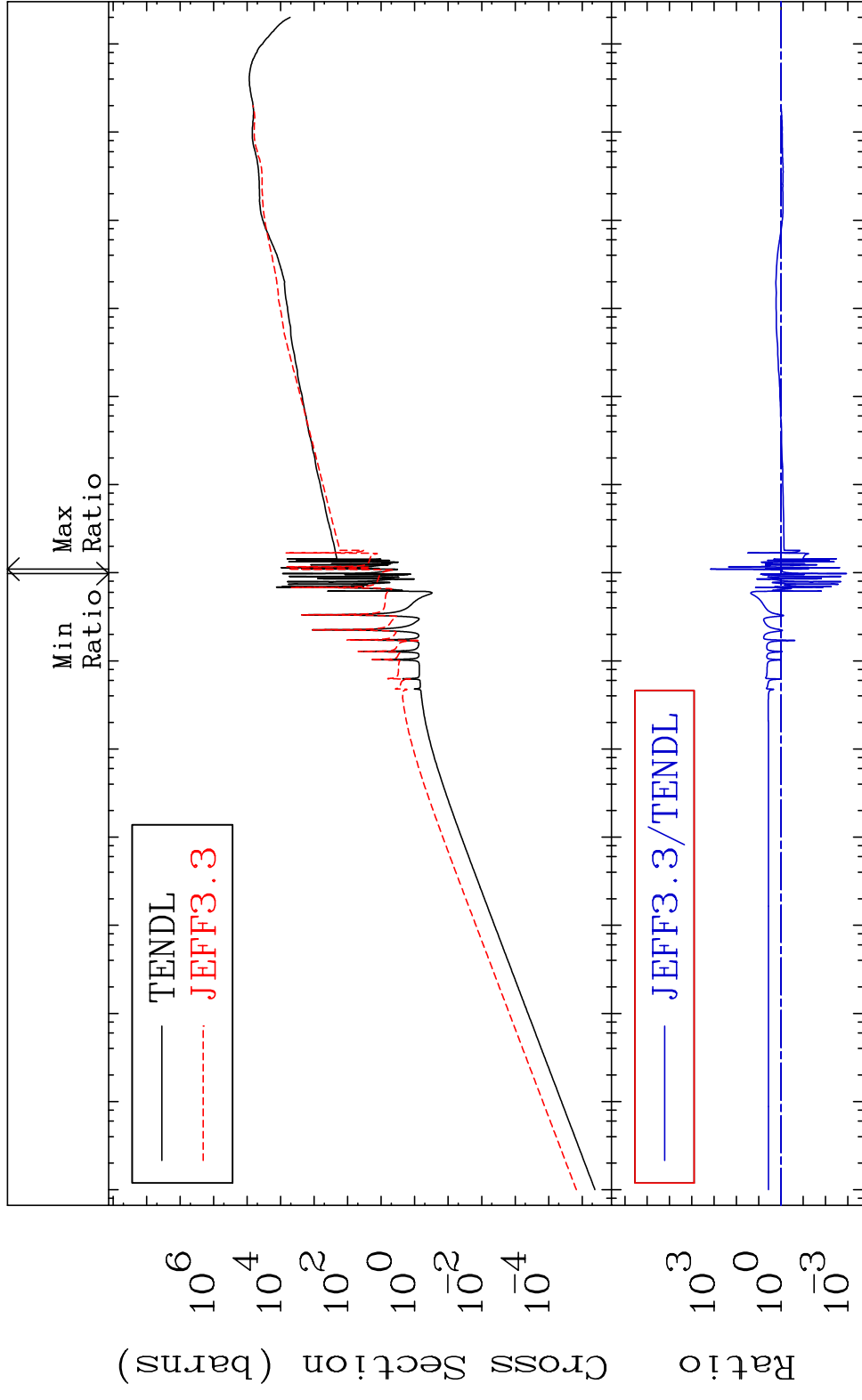


39 Incident Energy (eV) 60-Nd-147

MAT 6040

Kerma elastic
Cross Section

60-Nd-147
-99.88 To 9999. %

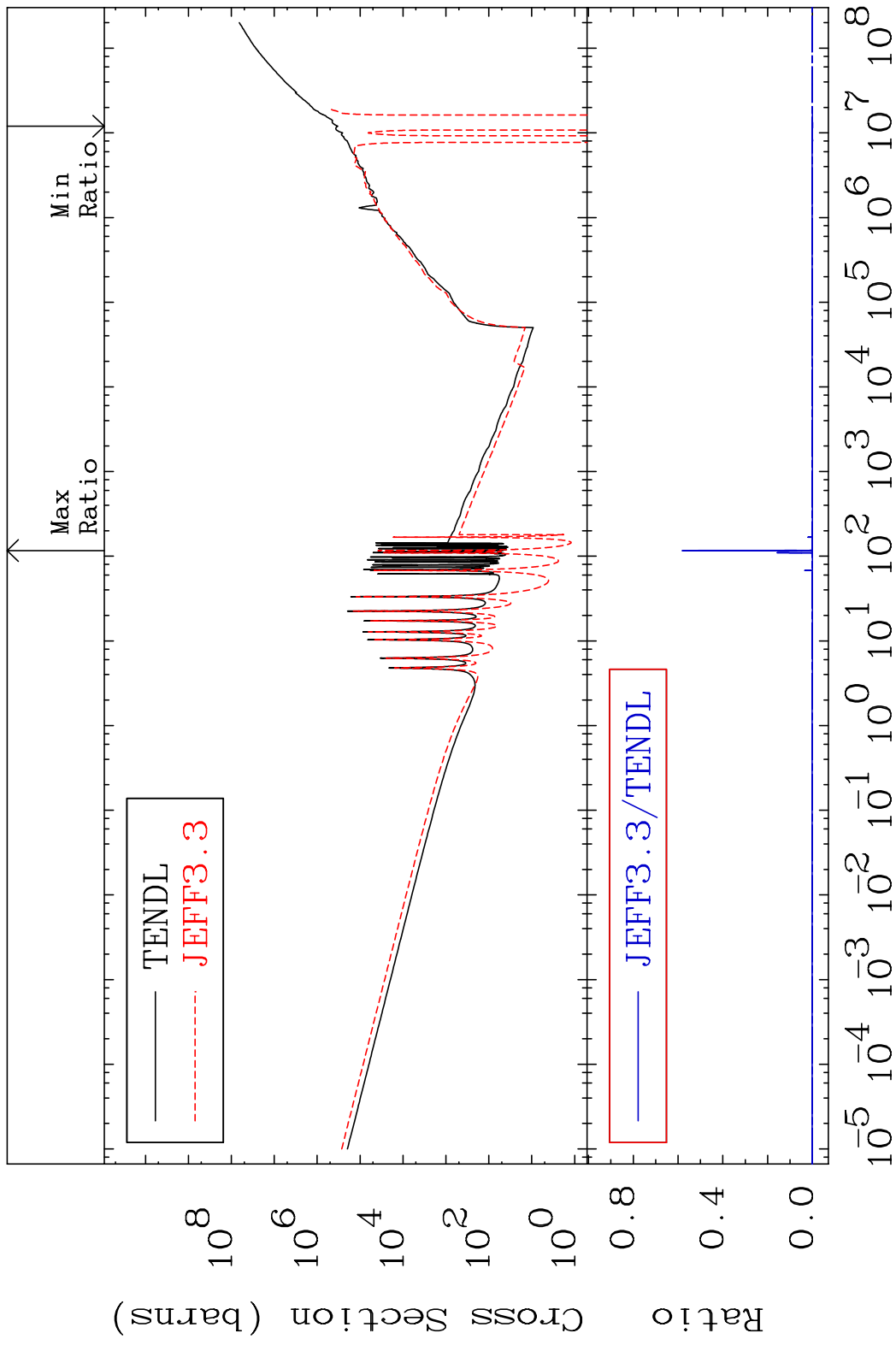


40

Incident Energy (eV)

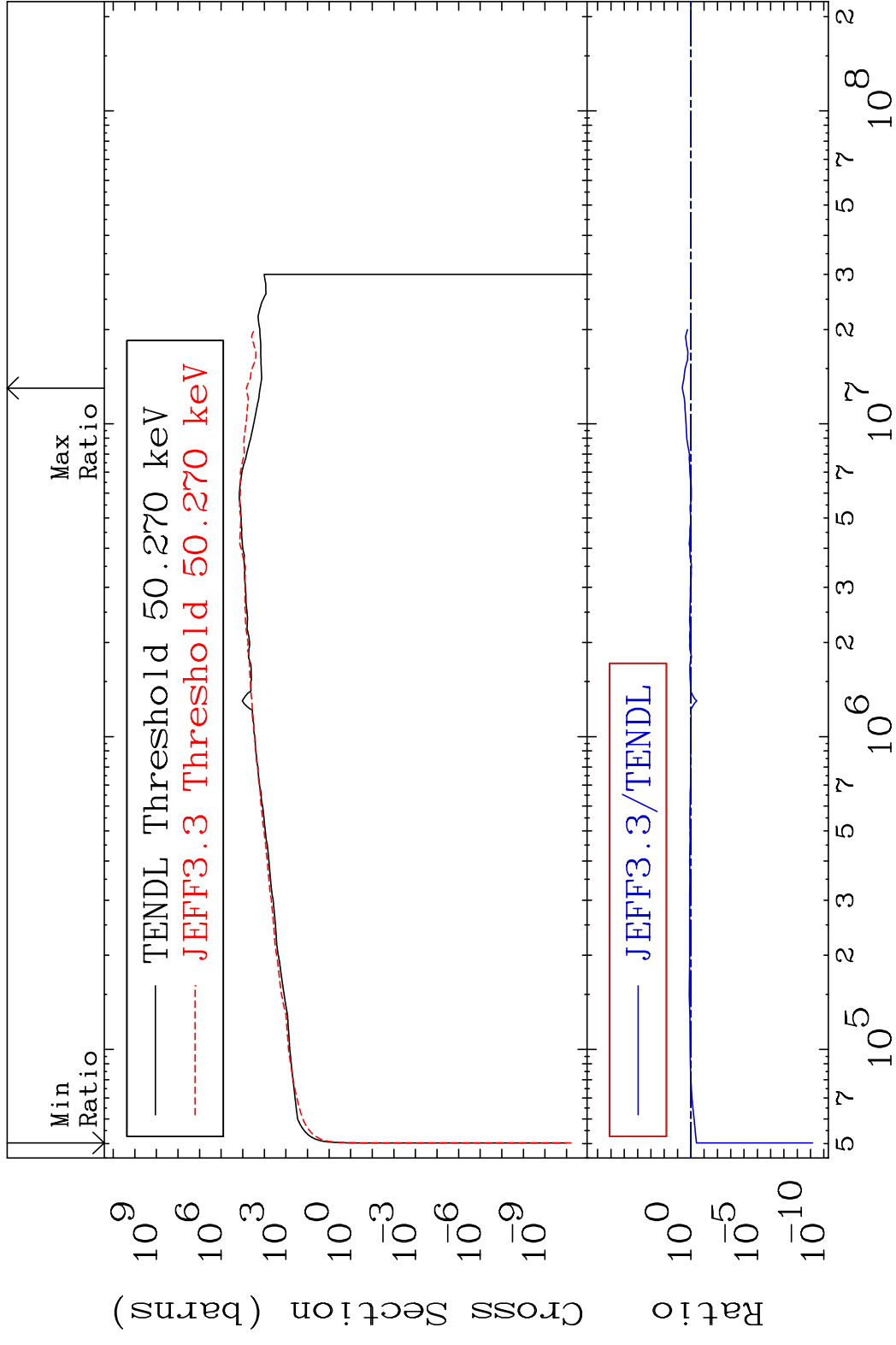
60-Nd-147

MAT 6040 Kerma non-elastic (all but mt2) 60-Nd-147
 Cross Section -144.3 To 9999. %

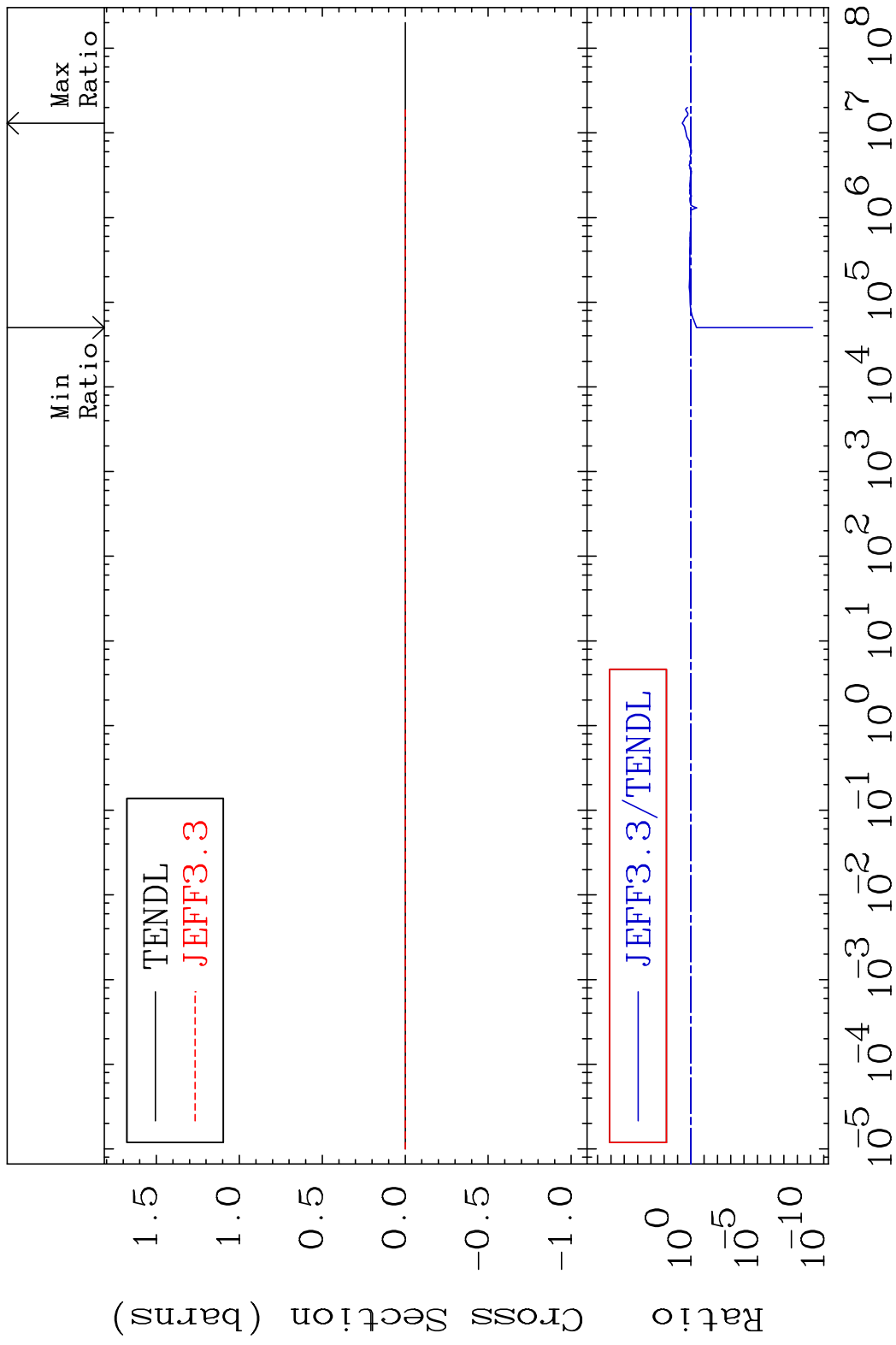


41 Incident Energy (eV) 60-Nd-147

MAT 6040 Kerma inelastic (mt51-91) 60-Nd-147
 Cross Section -100.0 To 331.6 %



MAT 6040 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-147
 Cross Section -100.0 To 331.6 %

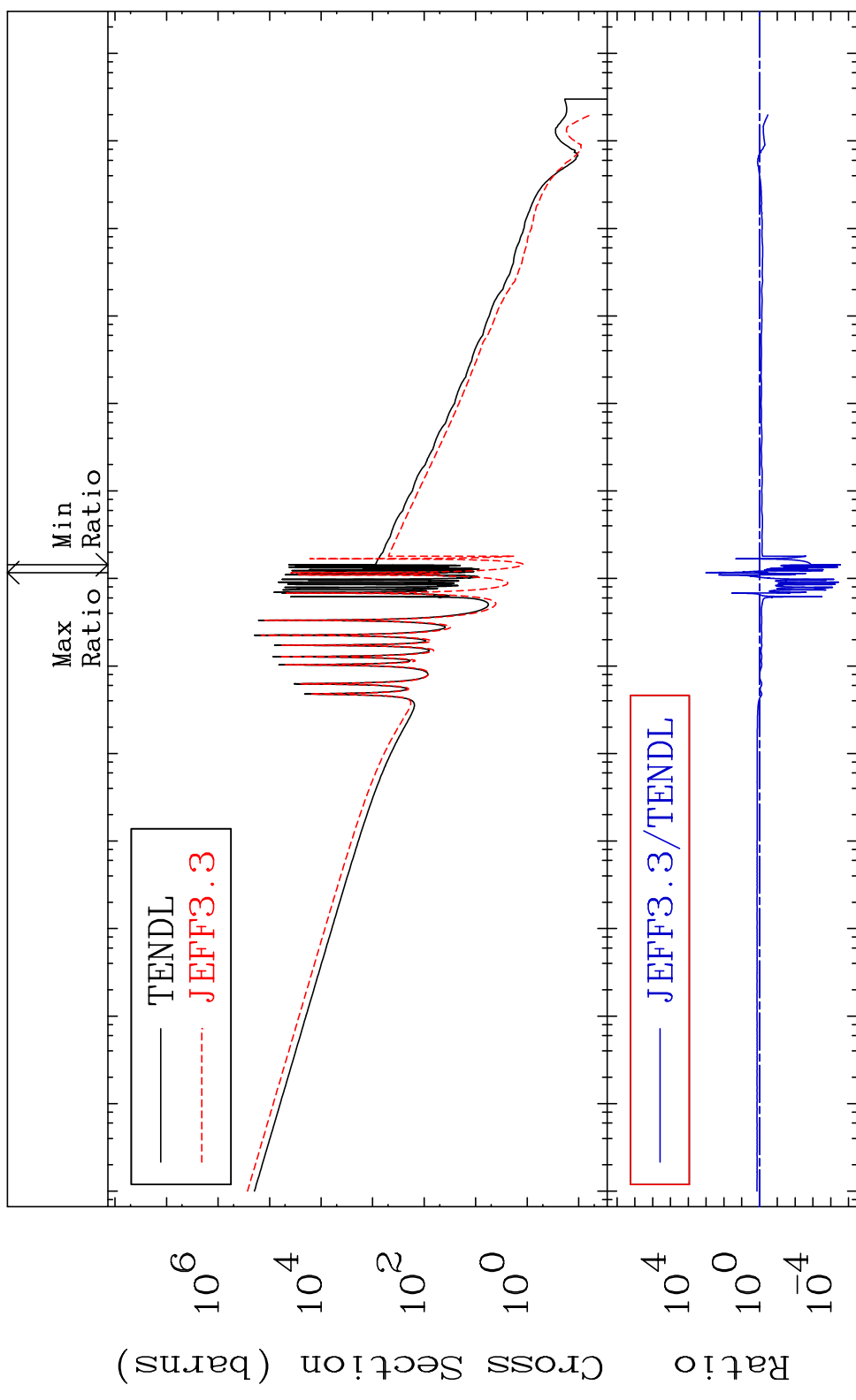


MAT 6040

Kerma capture (mt102)

60-Nd-147

Cross Section -100.0 To 9999. %



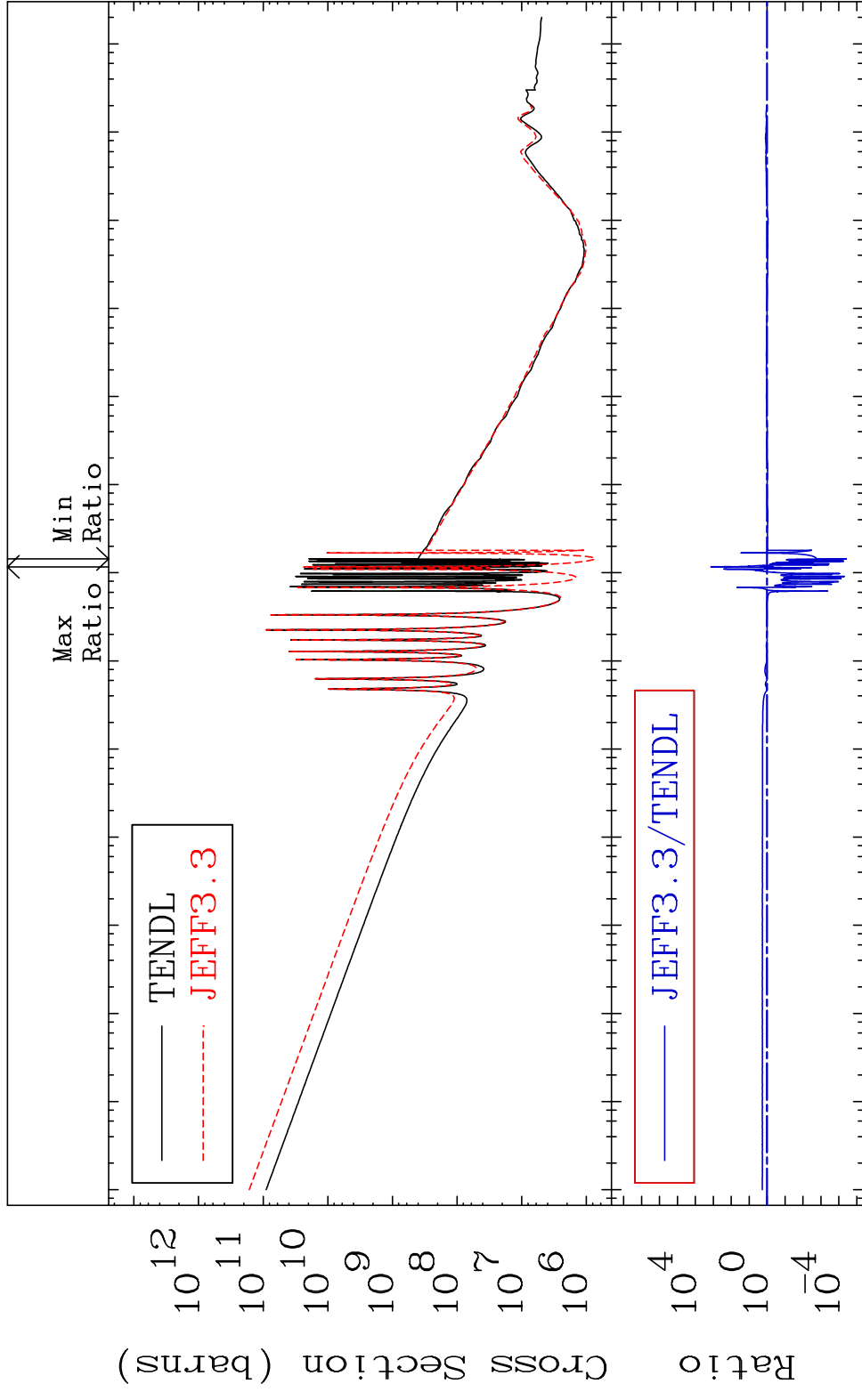
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

44

Incident Energy (eV)

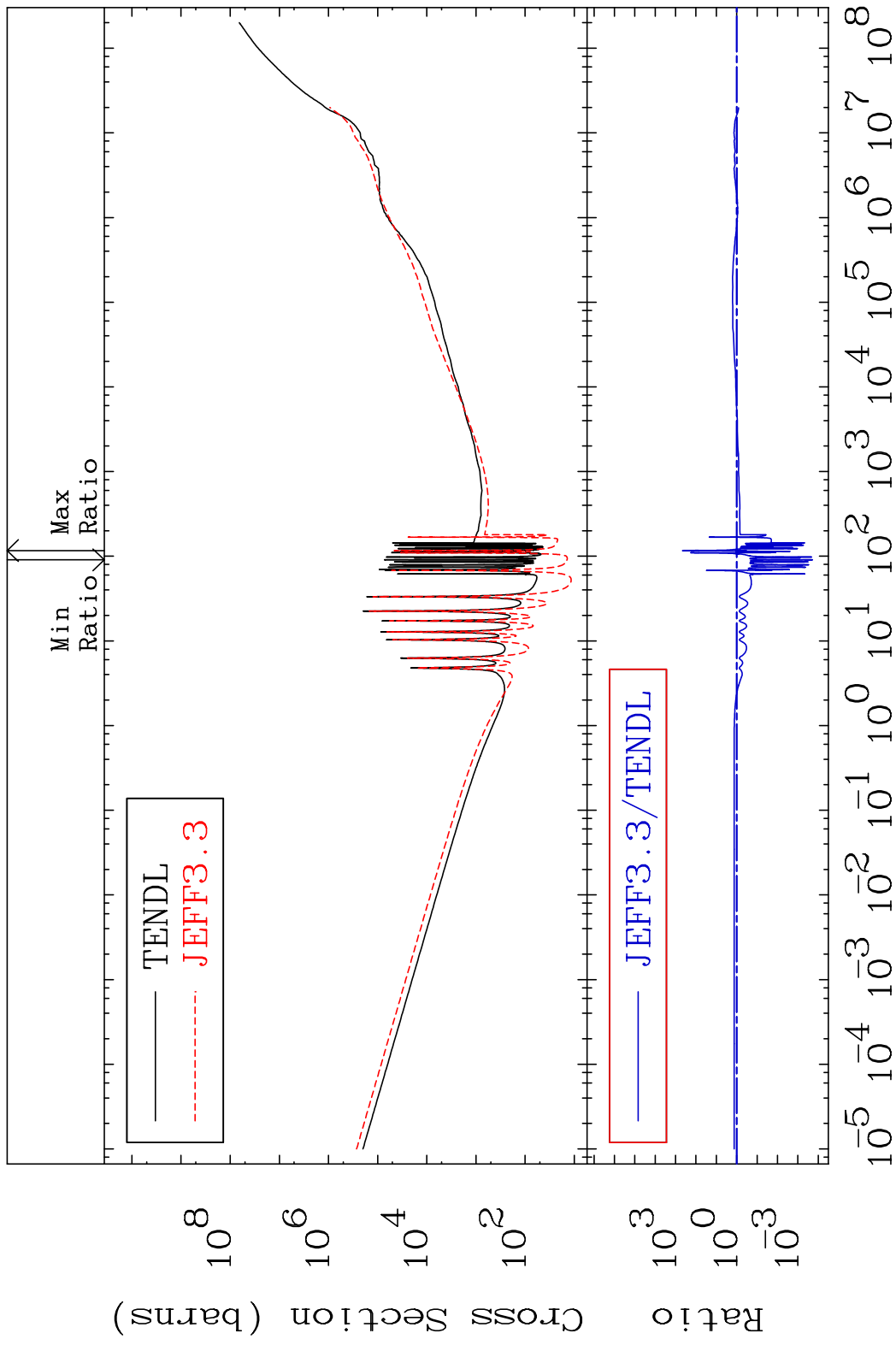
60-Nd-147

MAT 6040 Total photon (eV-barns) 60-Nd-147
 Cross Section -100.0 To 9999. %

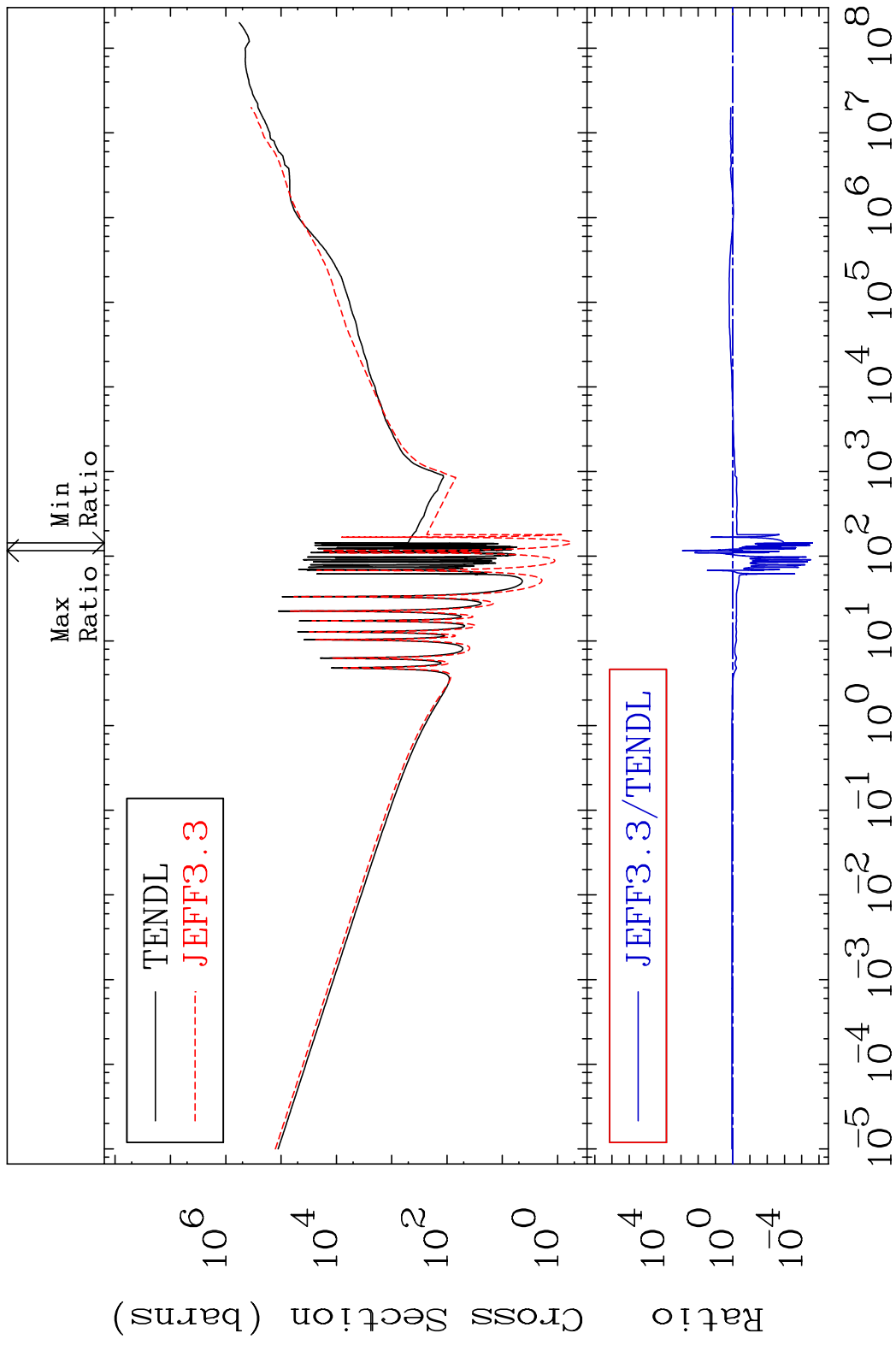


45 Incident Energy (eV) 60-Nd-147

MAT 6040 Total kinematic kerma (high limit) 60-Nd-147
 Cross Section -99.98 To 9999. %



MAT 6040 Dpa total (eV-barns) 60-Nd-147
 Cross Section -100.0 To 9999. %



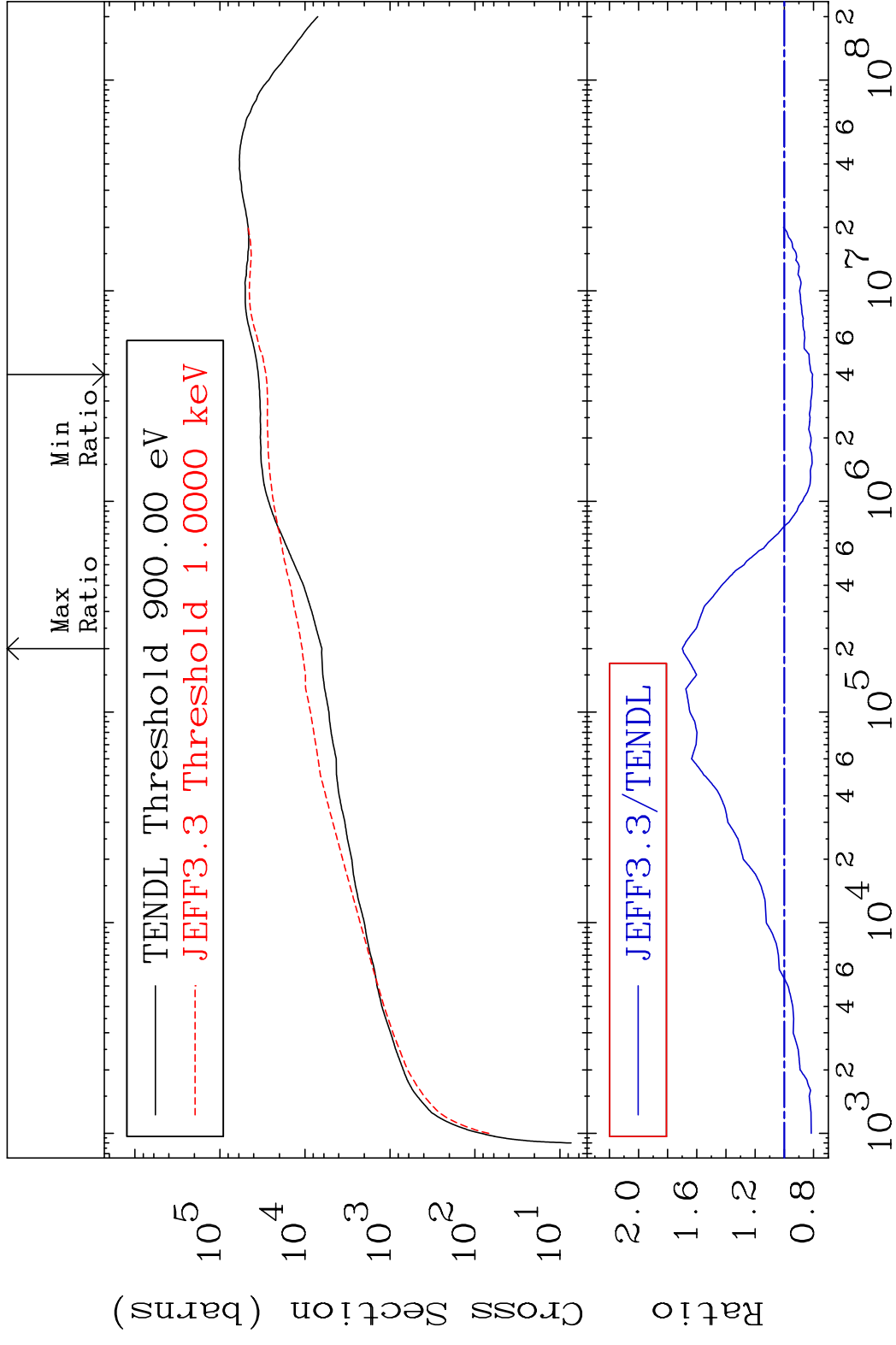
47 Incident Energy (eV) 60-Nd-147

MAT 6040

Dpa elastic (mt2)

60-Nd-147

Cross Section -19.36 To 69.93 %

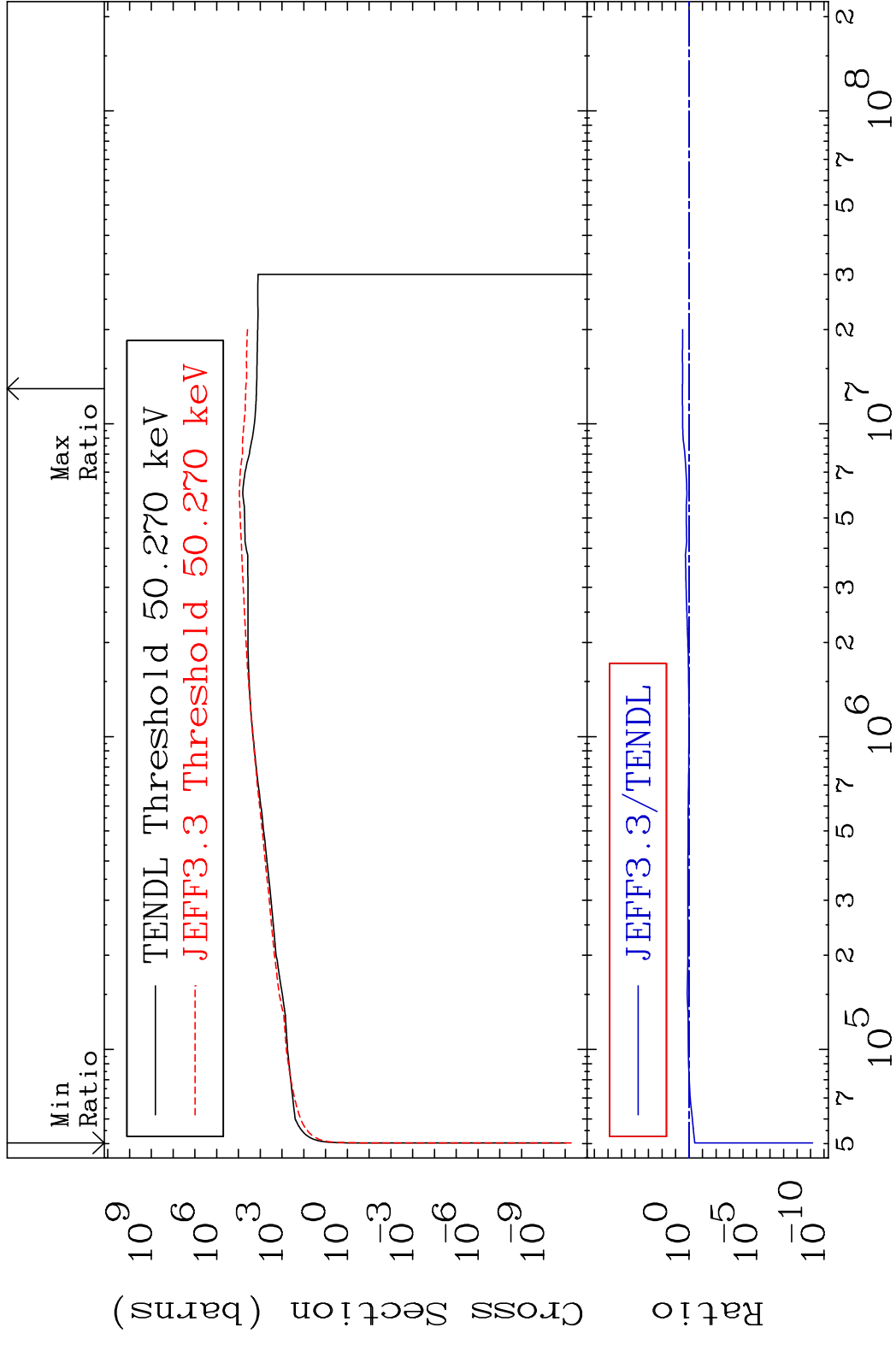


48

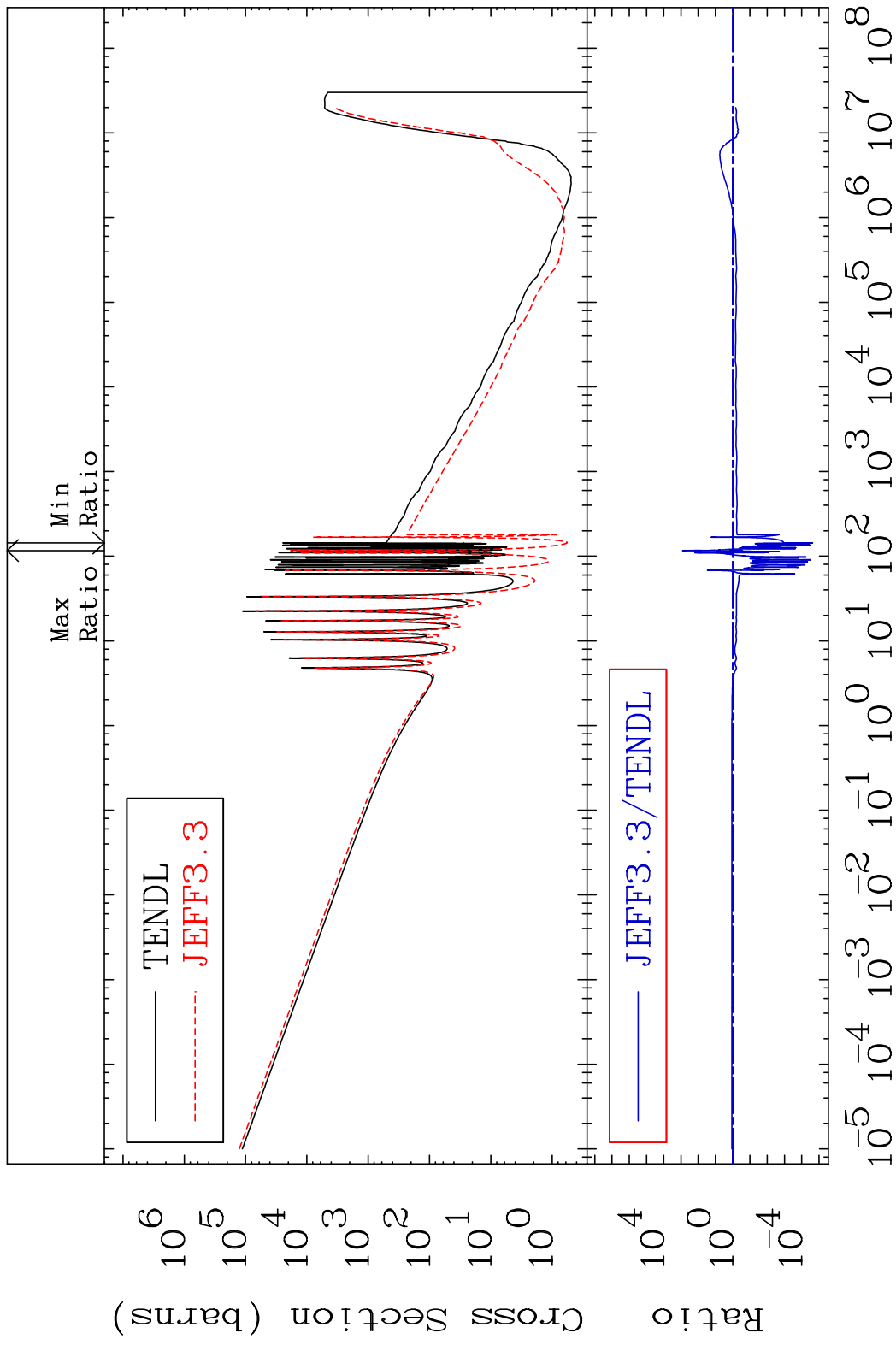
Incident Energy (eV)

60-Nd-147

MAT 6040 Dpa inelastic (mt51-91) 60-Nd-147
 Cross Section -100.0 To 211.4 %



MAT 6040 Dpa disappearance (mt102 -120) 60-Nd-147
 Cross Section -100.0 To 9999. %



50 Incident Energy (eV) 60-Nd-147